CFD-G30/G50

SERVICE MANUAL

Ver 1.2 2002. 06
With SUPPLEMENT-1
With SUPPLEMENT-2

US Model
Canadian Model
E Model

PHOTO : CFD-G50

CD Section	Model Name Using Similar Mechanism	CFD-G35
	CD Mechanism Type	KSM-213CDR
	Optical Pick-up Name	KSS-213C
Tape deck Section	Model Name Using Similar Mechanism	CFD-V17
	Tape Transport Mechanism Type	MF-V10-117

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS
POWER OUTPUT AND TOTAL HARMONIC DISTORTION
With 3.2 Ω loads, both channels driven from 150 – 10,000 Hz; rated 2.5 W per channel-minimum RMS power, with no more than 10 % total harmonic distortion in AC operation.
Woofer with 4-ohm loads, driven at 50 -150 Hz; rated 9.5 W minimum RMS power, with no more 10 % total harmonic distortion in AC operation.

Other Specifications
CD player section

System	Compact disc digital audio system
Laser diode properties	Material: GaAlAs Wavelength:780 nm Emission duration : Continuous Laser output : Less than 44.6 µW (This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)
Spindle speed	200 r/min (rpm) to 500 r/min (rpm) (CLV)
Number of channels	2
Frequency response	20 – 20,000 Hz + 0.5/-1.5 dB
Wow and flutter	Below measurable limit

Radio section

Frequency range	FM	87.6 – 108 MHz
	AM	530 – 1,710 kHz
Aerials	FM	Telescopic antenna
	AM	Built-in ferrite bar aerial

Cassette-corder section

Recording system	4 -track 2 channel stereo
Fast winding time	Approx. 110 sec. with Sony cassette C-60
Frequency response	TYPE I (normal) : 70 – 13,000 Hz

General

Speakers	Full range : 10 cm (4 in.) dia., 3.2 Ω, cone type (2) Woofer : 8 cm (3 1/4 in.) dia., 4 Ω, cone type (1)
Inputs	LINE IN (stereo minijack) : Sensetivity 436 mV
Outputs	Headphones jack (stereo minijack) For 16 – 68 Ω impedance headphones
Power output (excluding US model)	Full range : 4 W + 4 W (at 3.2 Ω, 10 % harmonic distortion in DC operation) Woofer : 12W (at 3.2 Ω, 10 % harmonic distortion in DC operation)
Power requirements	For CD radio cassette-corder : 120V AC, 60 Hz 12V DC, 8 size D (R 20) batteries For remote contorol (CFD-G50 only): 3V DC, 2 size AA (R6) batteries
Power consumption	AC 30W
Battery life	For CD radio cassette-corder:

FM recording	
Sony R20P : approx. 8 h	
Sony alkaline LR20 : approx. 18 h	
Tape playback	
Sony R20P : approx. 1.5 h	
Sony alkaline LR20 : approx. 6 h	
CD playback	
Sony R20P : approx. 1 h	
Sony alkaline LR20 : approx. 4 h	

Dimensions	Approx. 500 × 206 × 328 mm (w/h/d) (19 3/4 × 8 1/8 × 13 inches) (incl. projecting parts)
Mass	Approx. 7 kg (15 lb. 7 oz) (incl. batteries)
Supplied accessories	AC power cord (1) Remote control (1) (CFD-G50 only)

Design and specifications are subject to change without notice.

CD RADIO CASSETTE-CORDER

9-927-676-13
2002F1600-1
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Sony Corporation
Personal Audio Company
Published by Sony Engineering Corporation

SONY®

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

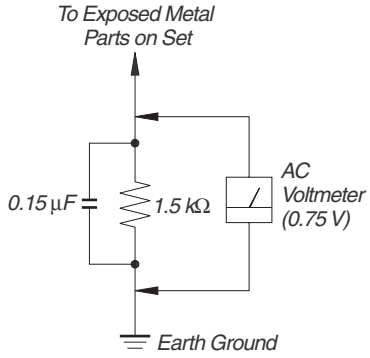


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

SECTION 1
SERVICE NOTES

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

The following caution label is located inside the unit.

CAUTION	;	INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ADVARSEL	;	USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDS ÆTTELSE FOR STRÅLING.
VARO!	;	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA LASERSÄTEILYLLE.
VARNING	;	LASERSTRÅLING NÄR DENNA DEL ÄR OPPNÅD OCH SPÄRREN ÄR URXOPPLAD.
ADVARSEL	;	USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

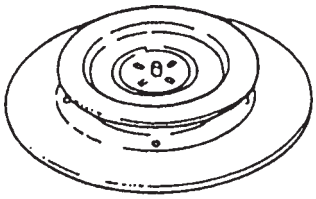
The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc., on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

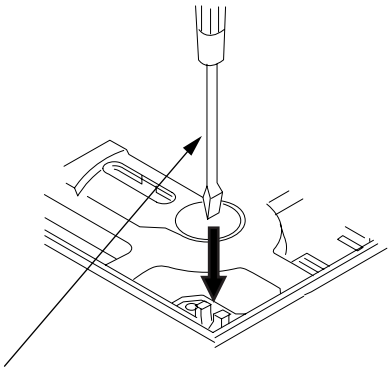
CHUCK PLATE JIG ON REPAIRING

On repairing CD section, playing a disc without the CD lid, use Chuck Plate Jig.
• Code number of Chuck Plate Jig : X-4918-255-1



LASER DIODE AND FOCUS SEARCH OPERATION CHECK

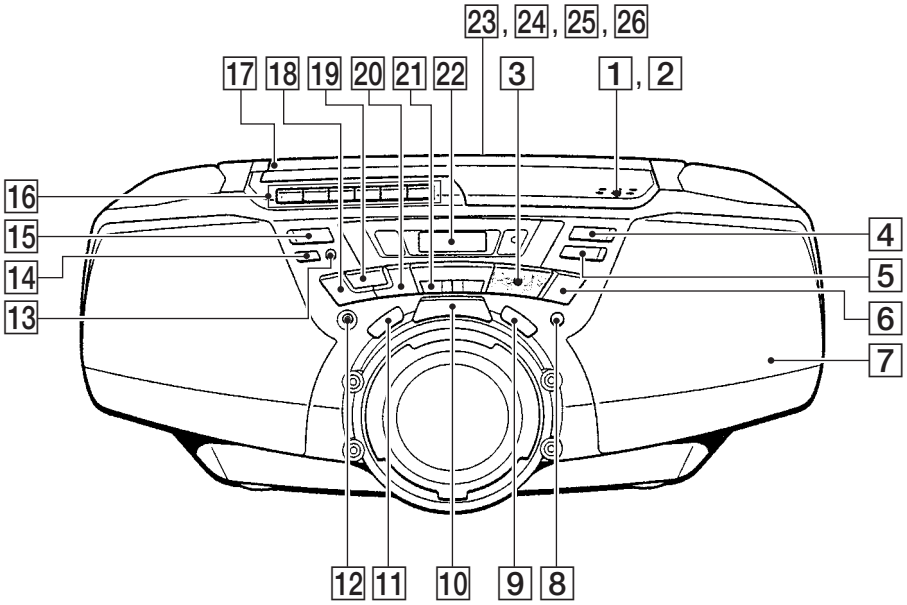
1. Press CD open knob.
2. Open the lid for CD.
3. Push on SWITCH (S801) as following figure.
4. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken.
   Objective lens moves up and down once for the focus search.



Insert a precision screw driver and push SWITCH(S801)

SECTION 2
GENERAL

LOCATION AND FUNCTION OF CONTROLS



1 CD ⏏ PUSH OPEN/CLOSE button
2 CD LID
3 CD ▶II button
4 VOLUME + button
5 VOLUME – button
6 CD ■ button
7 Speaker
8 LINE jack
9 SOUND button
10 POWER DRIVE WOOFER button
11 PLAY MODE (MONO/ST) button
12 ∩ Phone jack
13 DISPLAY ENT MEMORY button
14 SLEEP button
15 POWER button
16 Tape operation buttons
● button
► button
◄◄ button
►► button
■, ⏏ button
II button
17 CASSETTE LID
18 AUTO PRESET – button
19 RADIO BAND AUTO PRESET button
20 AUTO PRESET + button
21 TUNE I◄◄, ►►I buttons
22 Information display OPR/BATT indicator
23 AC IN jack
24 FM rod antenna
25 Battery compartment
26 LINE IN jack

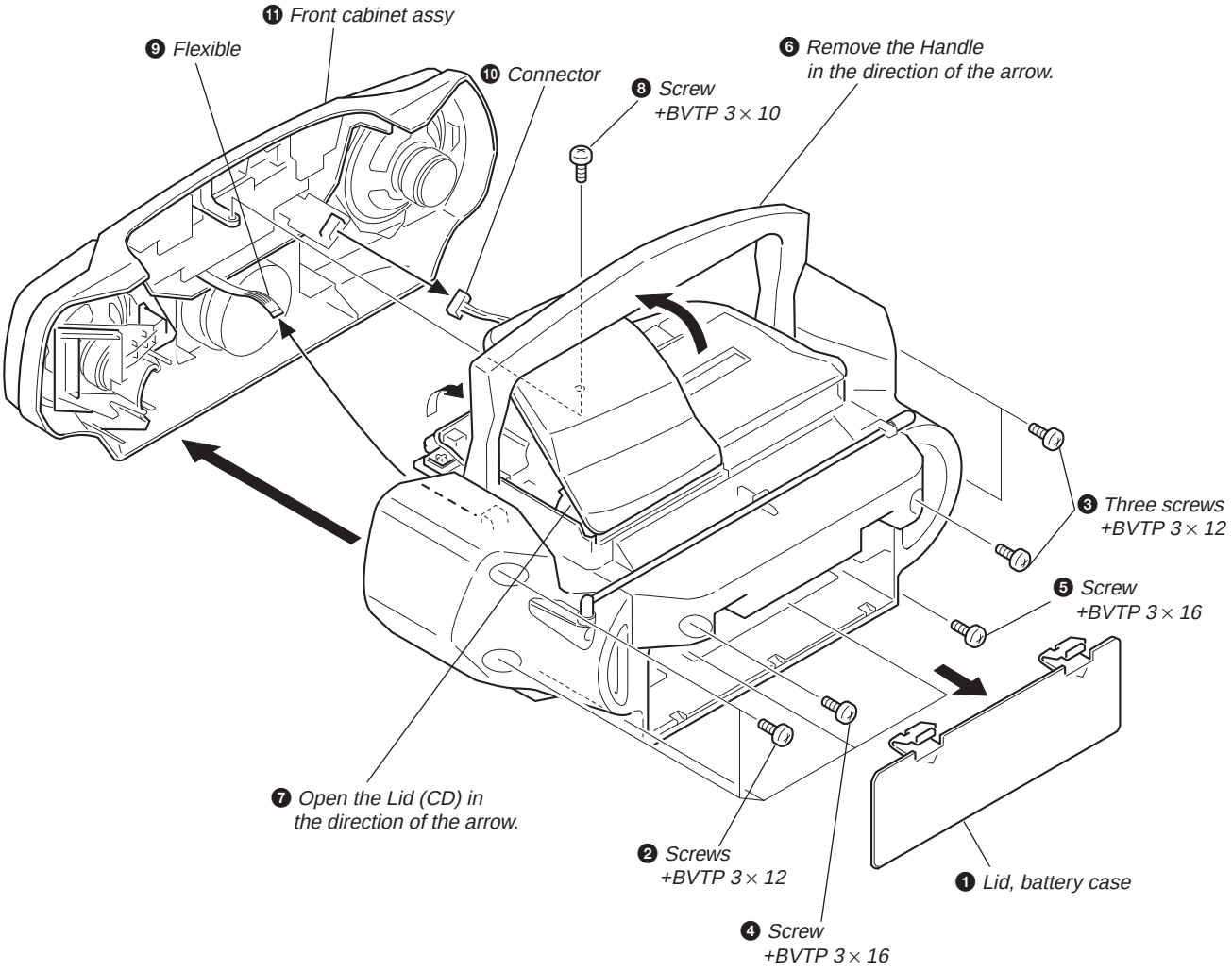
SECTION 3
DISASSEMBLY

• The equipment can be removed using the following procedure.

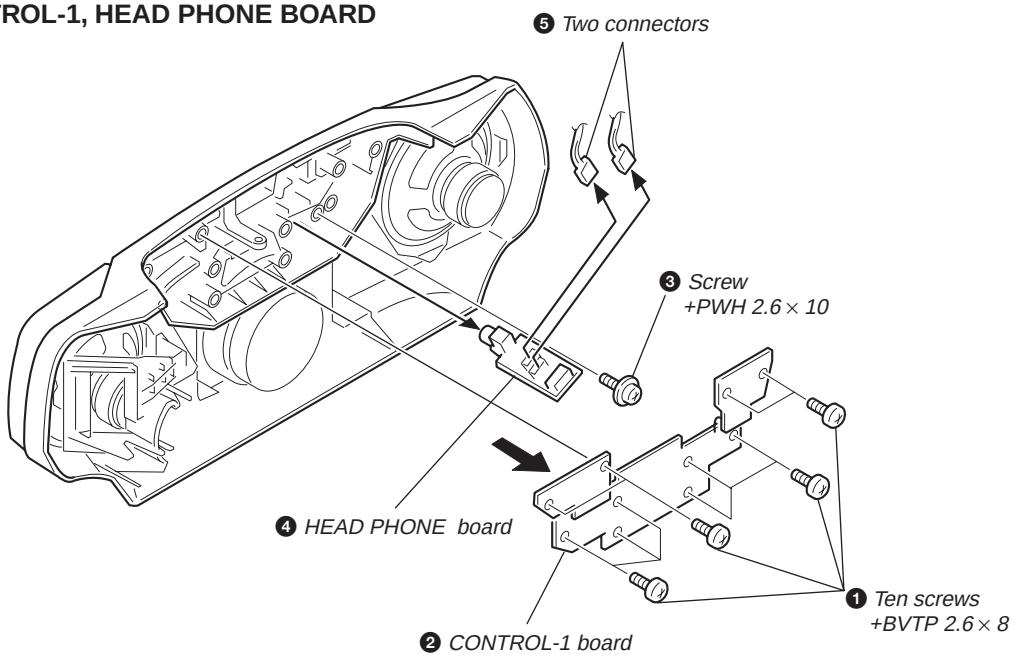
Set → Front cabinet assy → Cabinet (upper) assy → Power, Batt, Tuner, batt com board
Front cabinet assy → Control-1, Head phone board
Cabinet (upper) assy → Main, LIine in, Lcd board → CD board, Optical pick-up section, Mechanism deck

Note : Follow the disassembly procedure in the numerical order given.

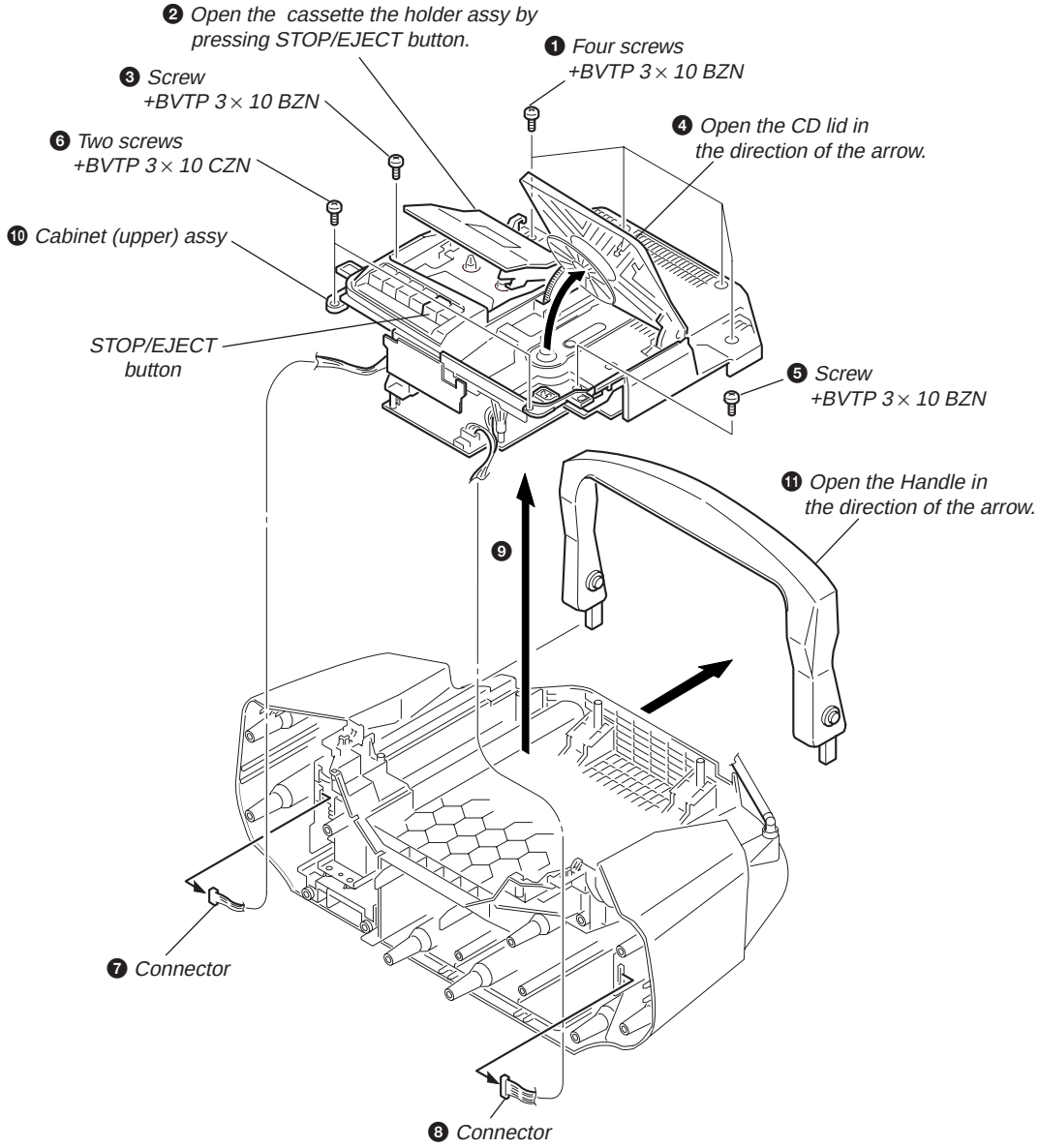
3-1. FRONT CABINET ASSY


⓫ Front cabinet assy
❾ Flexible
❿ Connector
❽ Screw +BVTP 3× 10
❻ Remove the Handle in the direction of the arrow.
❸ Three screws +BVTP 3× 12
❺ Screw +BVTP 3× 16
❼ Open the Lid (CD) in the direction of the arrow.
❷ Screws +BVTP 3× 12
❹ Screw +BVTP 3× 16
❶ Lid, battery case

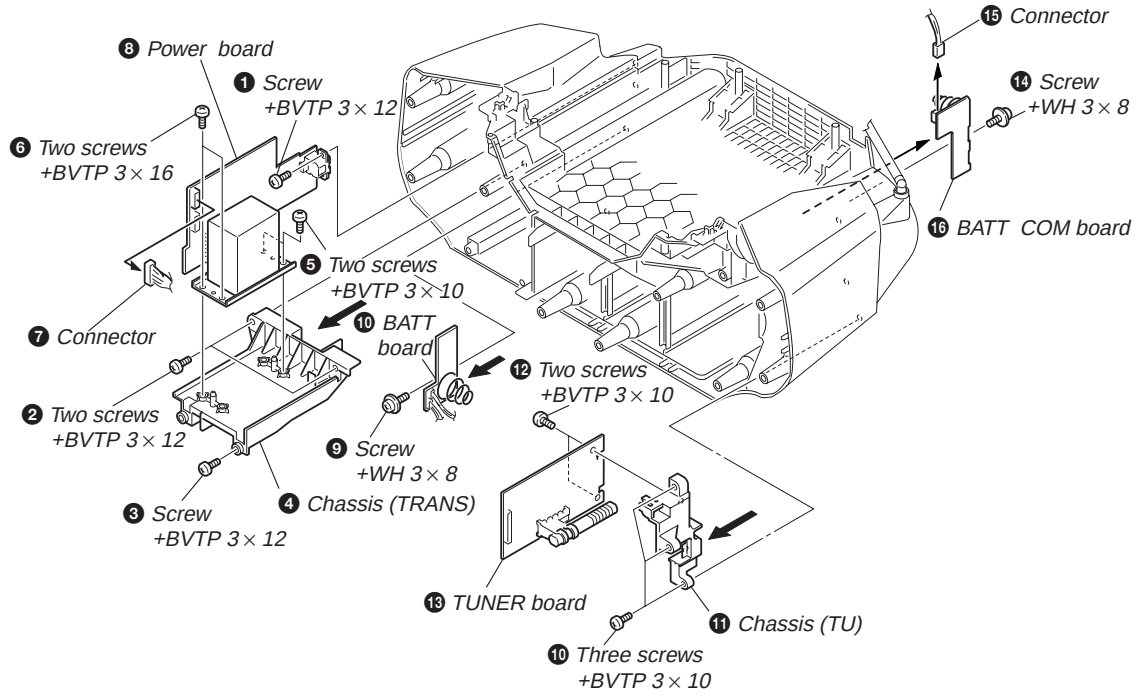
3-2. CONTROL-1, HEAD PHONE BOARD



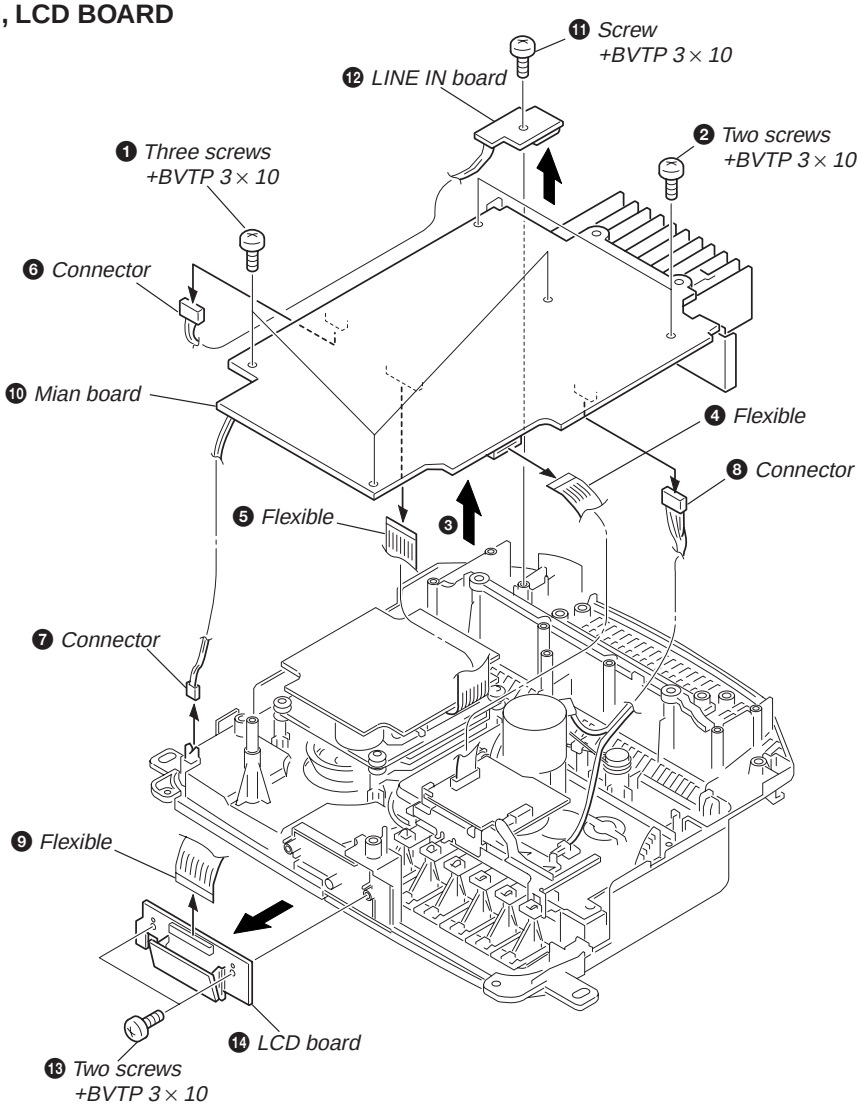
3-3. CABINET (UPPER) ASSY


❷ Open the cassette the holder assy by pressing STOP/EJECT button.
❶ Four screws
+BVTP 3 × 10 BZN
❸ Screw
+BVTP 3 × 10 BZN
❹ Open the CD lid in the direction of the arrow.
❻ Two screws
+BVTP 3 × 10 CZN
❿ Cabinet (upper) assy
STOP/EJECT button
❺ Screw
+BVTP 3 × 10 BZN
⓫ Open the Handle in the direction of the arrow.
❾
❼ Connector
❽ Connector

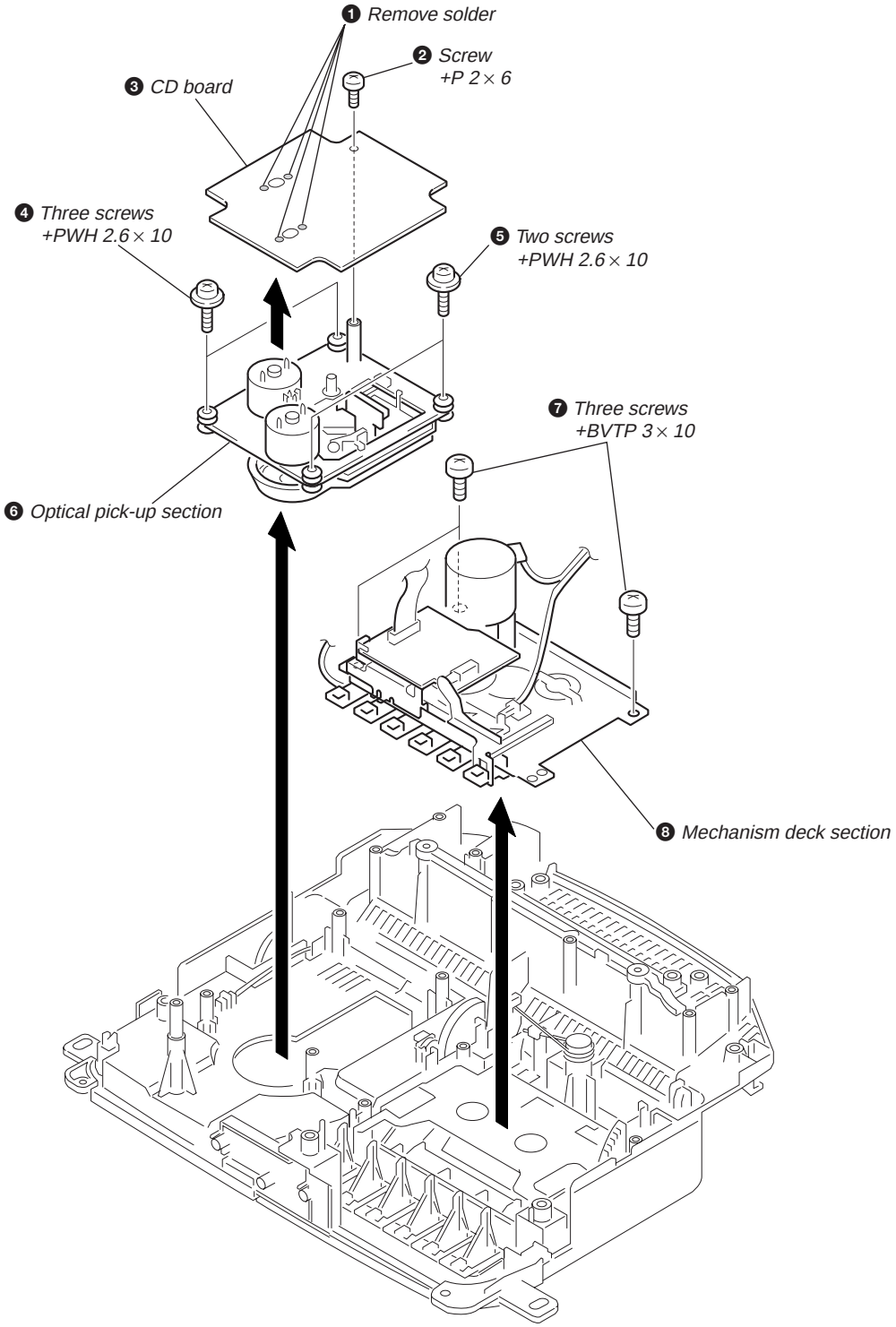
3-4. POWER, BATT, TUNER, BATT COM BOARD


❽ Power board
❶ Screw +BVTP 3× 12
❻ Two screws +BVTP 3× 16
❺ Two screws +BVTP 3× 10
❼ Connector
❿ BATT board
⓬ Two screws +BVTP 3× 10
❷ Two screws +BVTP 3× 12
❾ Screw +WH 3× 8
❸ Screw +BVTP 3× 12
❹ Chassis (TRANS)
⓭ TUNER board
⓫ Chassis (TU)
❿ Three screws +BVTP 3× 10
⓯ Connector
⓮ Screw +WH 3× 8
⓰ BATT COM board

3-5. MAIN, LINE IN, LCD BOARD



3-6. CD BOARD, OPTICAL PICK-UP SECTION, MECHANISM DECK



SECTION 4
ADJUSTMENTS

4-1. MECHANICAL ADJUSTMENT

PRECAUTION

1. Clean the following parts with a denatured-alchool-moistened swab:
   record/playback head — pinch roller
   erase head — rubber belts
   capstans
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	18 – 60 g•cm (0.25 – 0.83 oz•inch)
FWD back tension		1.0 – 5.0 g•cm (0.014 – 0.069 oz•inch)
Fast Forward	CQ-201B	45 – 95 g•cm (0.62 – 1.32 oz•inch)
Rewind		45 – 95 g•cm (0.62 – 1.32 oz•inch)

Tape Tension Measurement

Torque Meter	Meter Reading
CQ-403A	more than 60 g (more than 2.12 oz)

4-2. ELECTRICAL ADJUSTMENT

0dB = 0.775V

TAPE RECODER SECTION

Standard output level

Output	HP OUT
Load impedance	32 Ω
Output signal level	0.25 V (–10 dB)

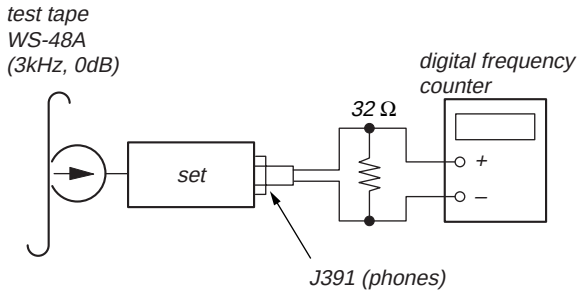
Test tape

Test Tape	Signal	Used for
WS-48A	3 kHz, 0 dB	Tape speed adjustment

Tape Speed Adjustment

Procedure :

Mode : Playback



Adjustment Value : normal tape speed

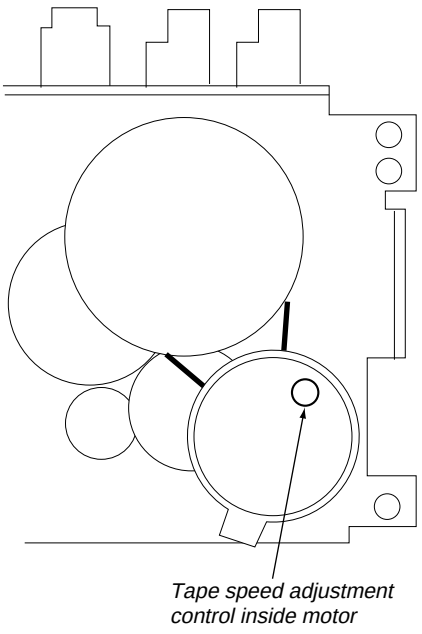
Adjust the tape speed adjustment control inside motor, so that the frequency counter reading becomes 3,000 Hz.

Specification Value :

Digital frequency counter
2,910 – 3,090Hz

Frequency difference between the beginning and the end of the tape should be within 1.5% (45 Hz).

Adjustment Location :



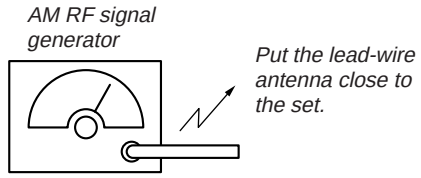
TUNER SECTION

0 dB = 1 µV

• Switch Location
VOLUME : MAX
MEGA BASS : OFF
PRESET SOUND MODE : OFF

AM SECTION

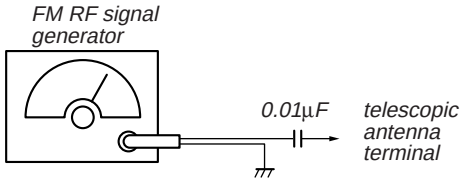
BAND : AM
Signal generator



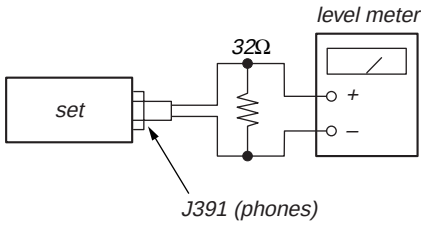
30% amplitude modulation by 400Hz signal.
Output level : as low as possible

FM SECTION

BAND : FM
Signal generator



75kHz (100%) amplitude modulation by 1kHz signal.
Output level : as low as possible



- Repeat the procedures in each adjustment several times for the maximum level meter indication.
- The frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AM IF ADJUSTMENT	
Adjust for a maximum reading on level meter.	
T2	455 kHz

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L3	620 kHz
CT3	1,400 kHz

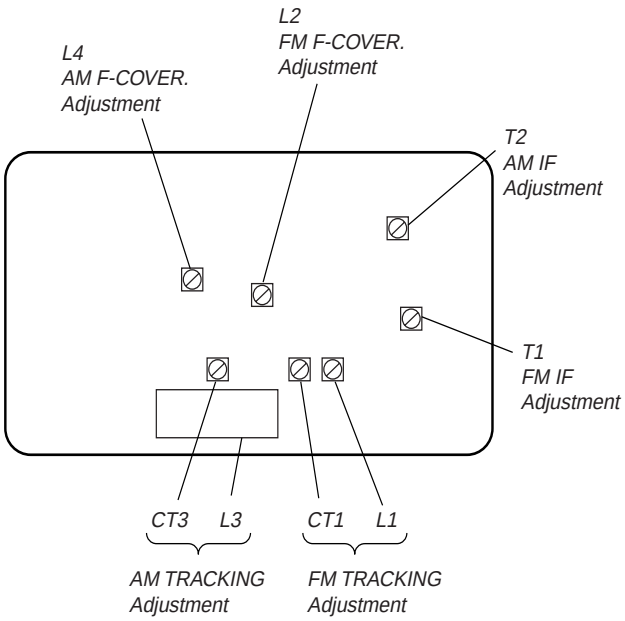
AM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L4	520 kHz

FM IF ADJUSTMENT	
Adjust for a maximum reading on level meter.	
T1	10.7 MHz

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L1	86.5 MHz
CT1	109.5 MHz

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L2	86.5 MHz

[Adjustment Location : Main board] (Component side)



CD SECTION

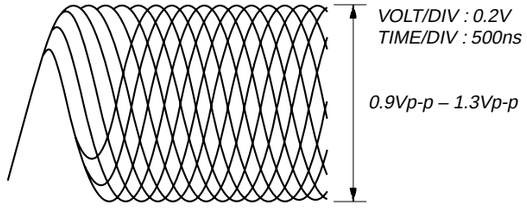
Focus Bias Check

This check is to be done when the optical block replaced.

Check Procedure:

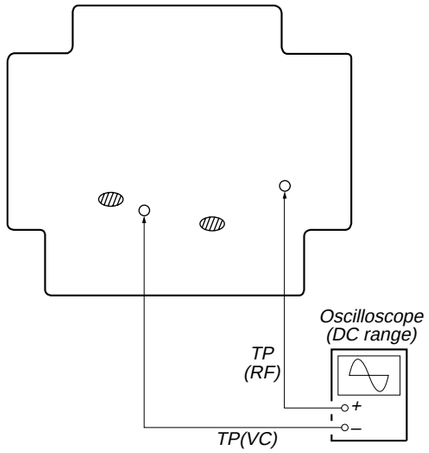
1. Connect the oscilloscope to test point TP (VC) and TP (RF) on MAIN board.
2. Put the set into test mode.
3. Opitical pick-up setting to the center by + or – button pushing.
4. Insert disk (YEDS-18) and press ▶II button.
5. Press the MODE button. (Tracking servo ON)
6. Check that the oscilloscope wavewform is as shown in the figure below (eye pattern).
   A good eye pattern means that the diamond shape (◊) in the center of the waveform can be clearly distinguished.
7. Release test mode after adjustment is completed.

• RF signal reference waveform (eye pattern)



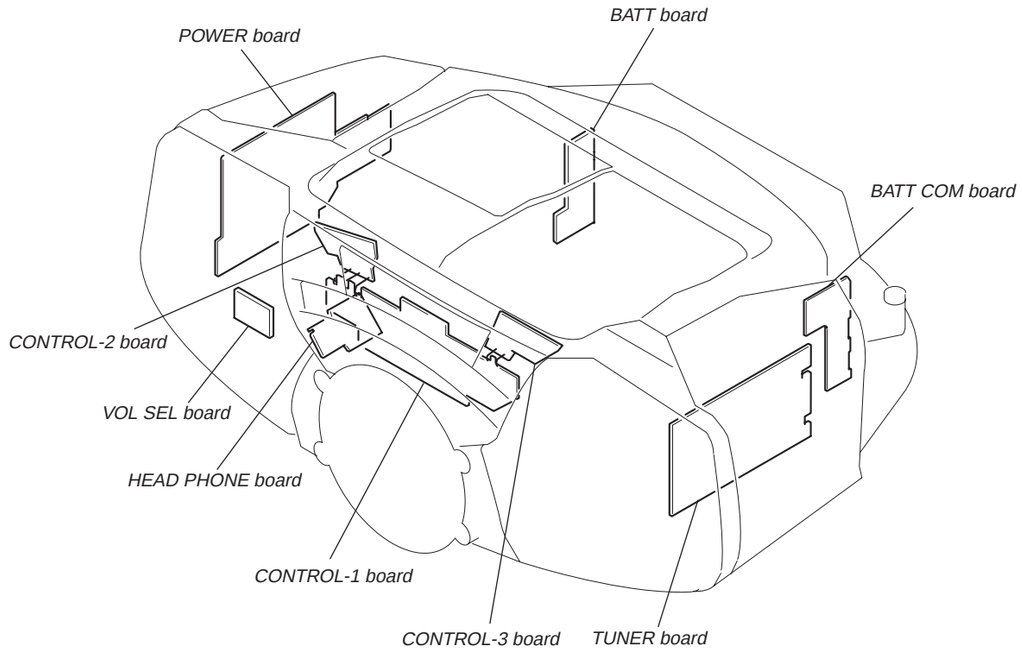
When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensivity.

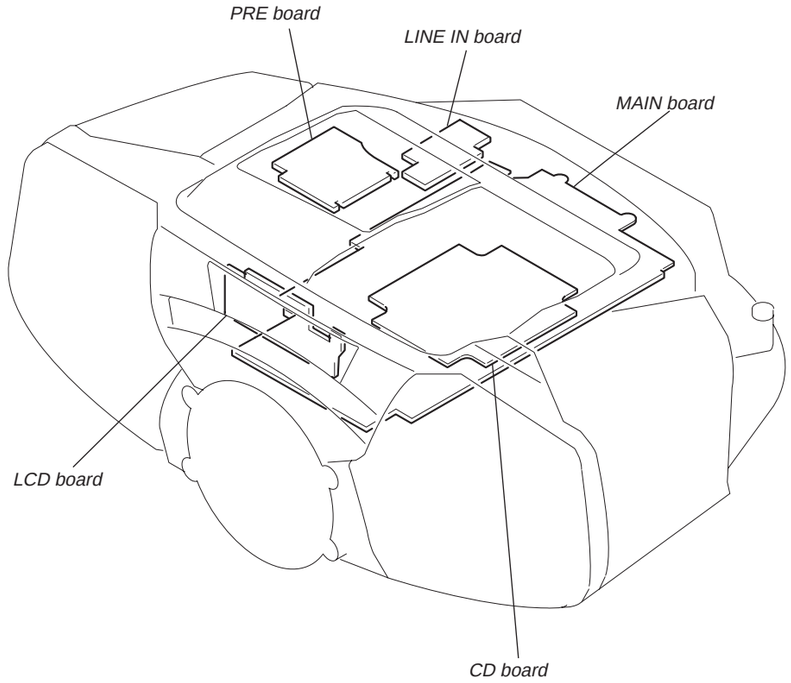
[Adjustment Location : CD board] (Conductor side)



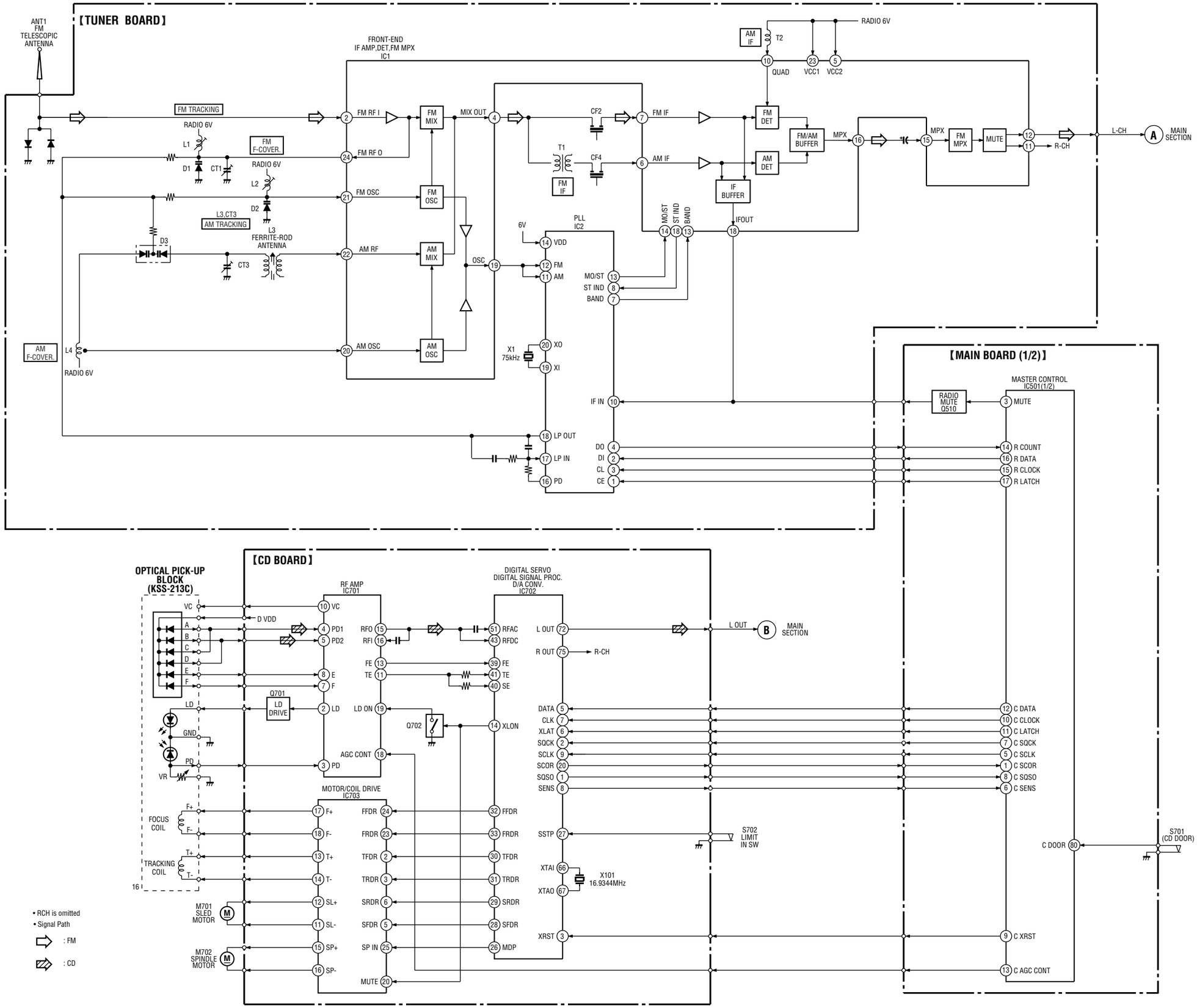
SECTION 5
DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION

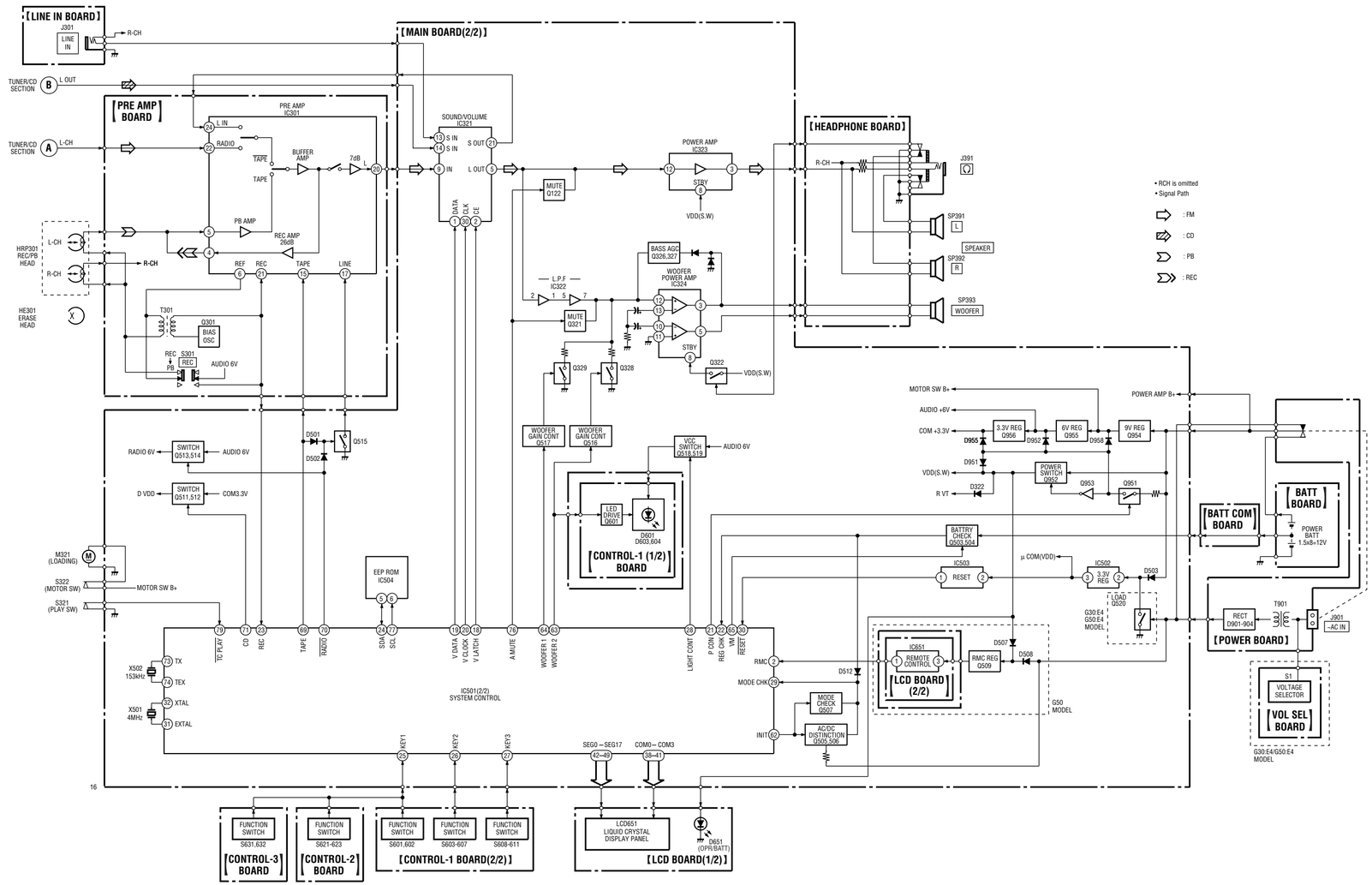




5-2. BLOCK DIAGRAMS – TUNER/CD SECTION –

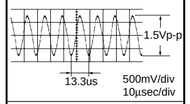


– MAIN SECTION –

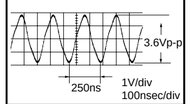


WAVEFORM

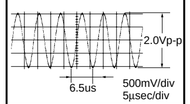
① IC2 ⑳



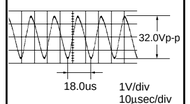
② IC501 ㉛



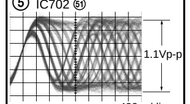
③ IC501 ㉞



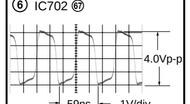
④ T301



⑤ IC702 ㊶



⑥ IC702 ㊼



Note on Printed Wiring Board:
- ○——○ : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ▒▒▒ : Pattern from the side which enables seeing.

Note on Schematic Diagrams:
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : nonflammable resistor.
- ▭ : panel designation.
- ▭ : adjustment for repair.
- B+ : B+ Line.
- Power voltage is dc 12 V and fed with regulated dc power supply from battery terminal.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.

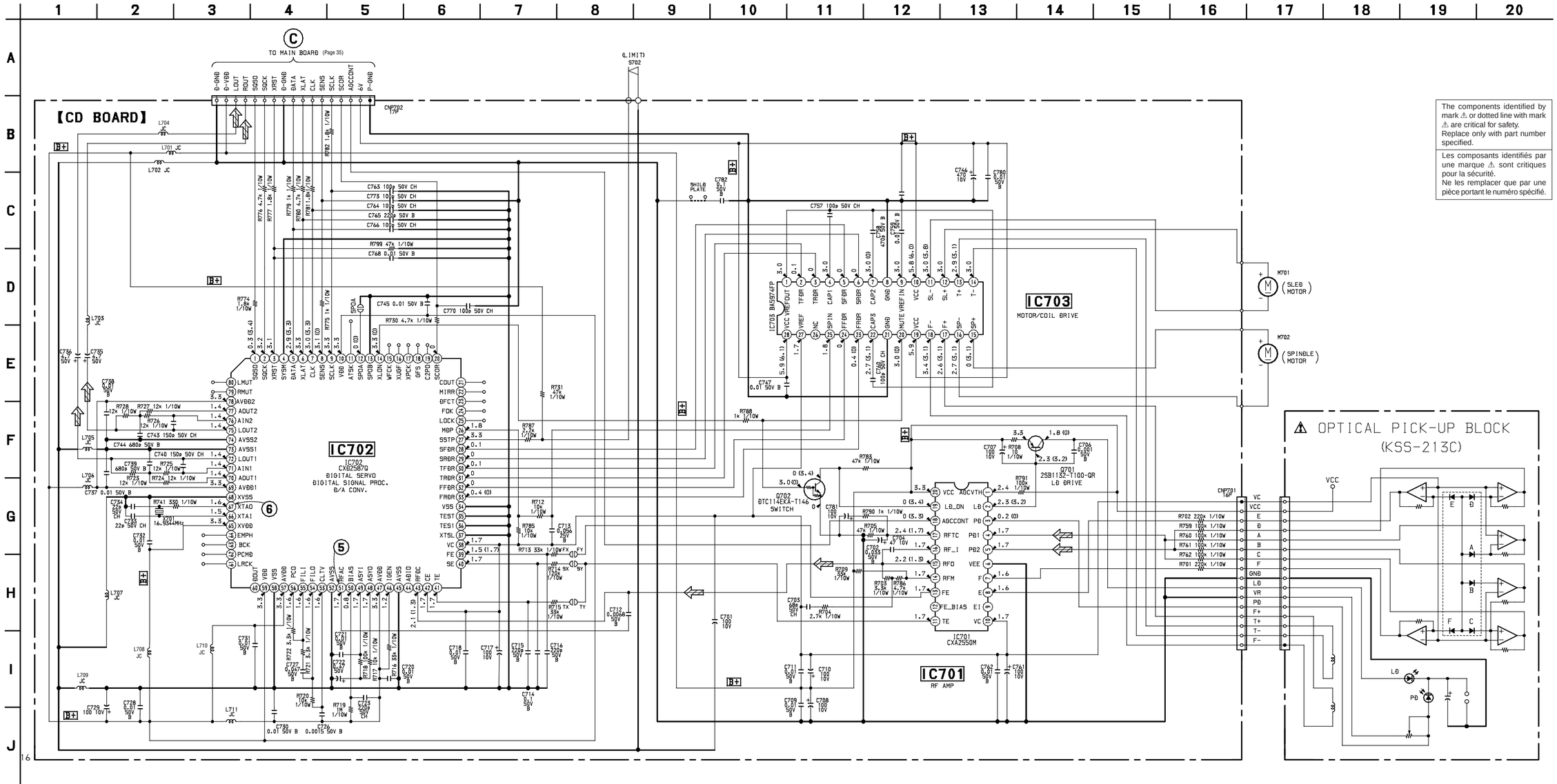
Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

– For Radio, TAPE section MAIN (1/2) –
no mark : PLAY (TAPE SECTION)
CD STOP
( ) : REC (TAPE SECTION)
[ ] : FM (RADIO SECTION)
< > : AM (RADIO SECTION)
– For CD Section MAIN (2/2) –
no mark : CD PLAY
TAPE STOP

- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  : FM
  : PB
  : REC
  : CD
- Abbreviation
  E4 : 220 V-240 V AC area model
  E92 : 120 V AC area model
  CND : Canadian model
  MX : Mexican model

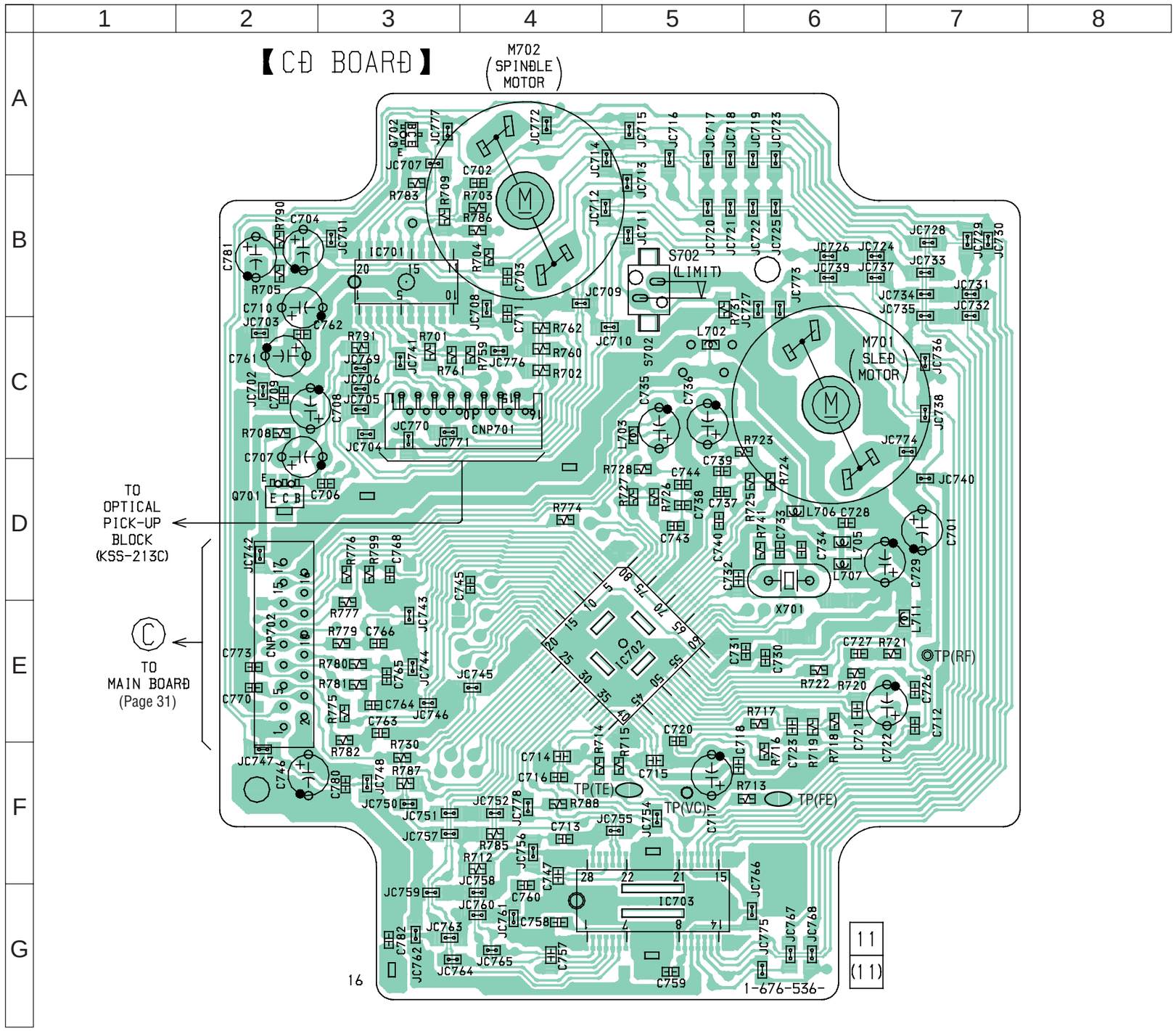
5-3. SCHEMATIC DIAGRAM – CD SECTION –

• Refer to page 17 for Note on Schematic Diagrams. • Refer to page 17 for Waveforms. • Refer to page 45, 46 for IC Block Diagrams.



5-4. PRINTED WIRING BOARD – CD SECTION –

• Refer to page 12 for Circuit Boards Location. • Refer to page 17 for Note on Printed Wiring Board.

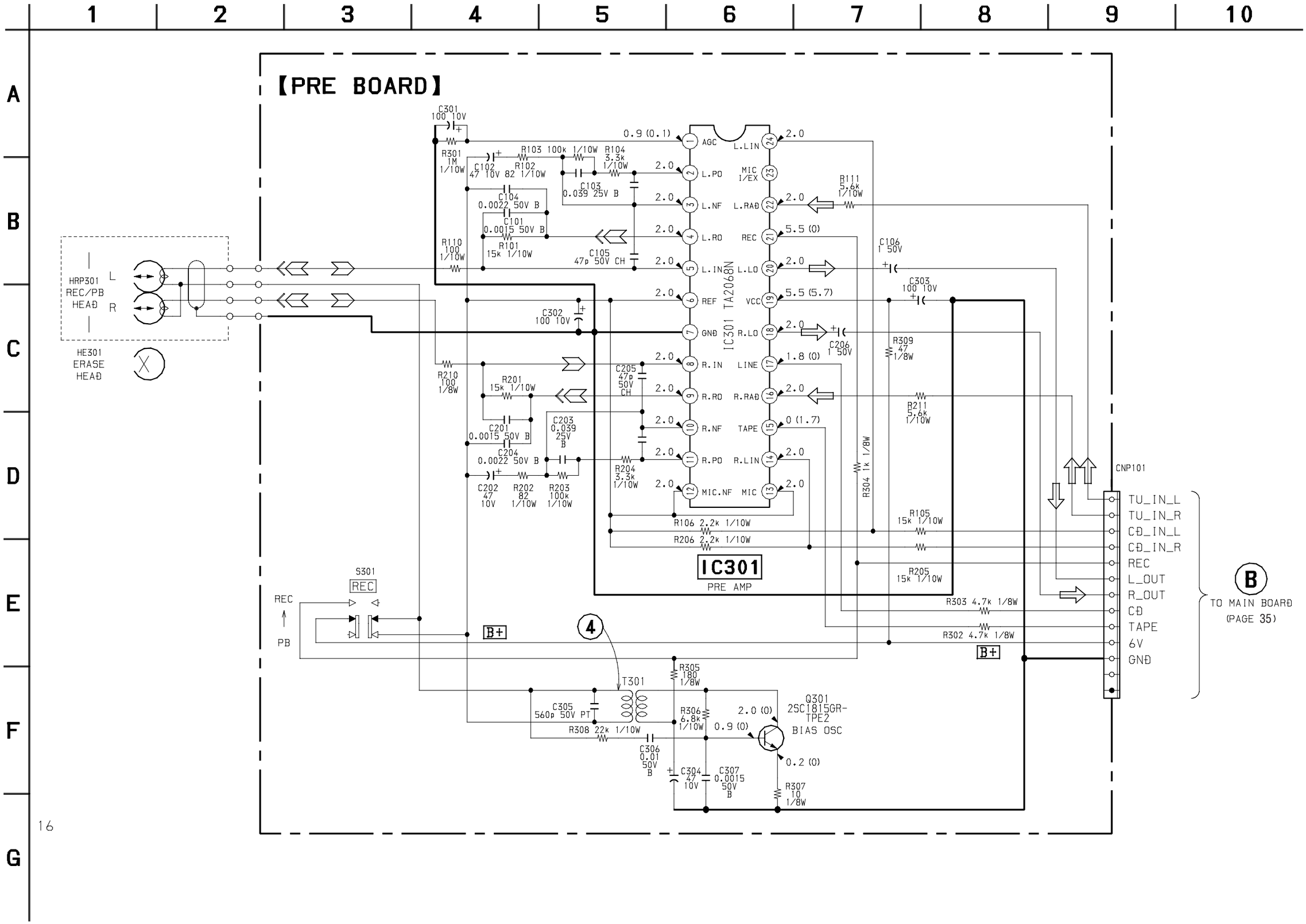


• **Semiconductor Location**

Ref. No.	Location
IC701	B-3
IC702	E-5
IC703	G-5
Q701	D-2
Q702	A-3

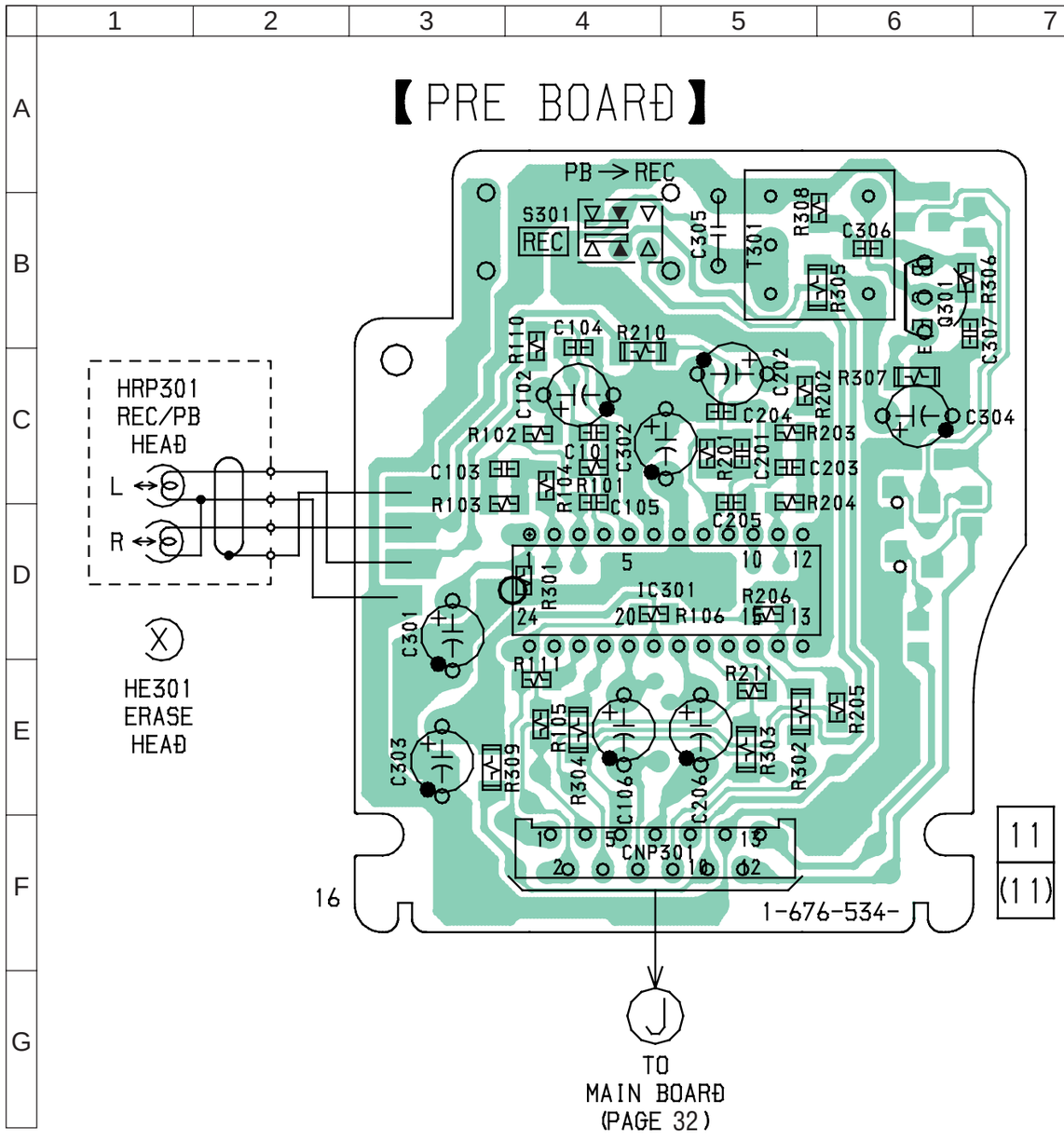
5-5. SCHEMATIC DIAGRAM – CASSETTE DECK SECTION –

• Refer to page 17 for Note on Schematic Diagrams. • Refer to page 17 for Waveforms. • Refer to page 46 for IC Block Diagrams.



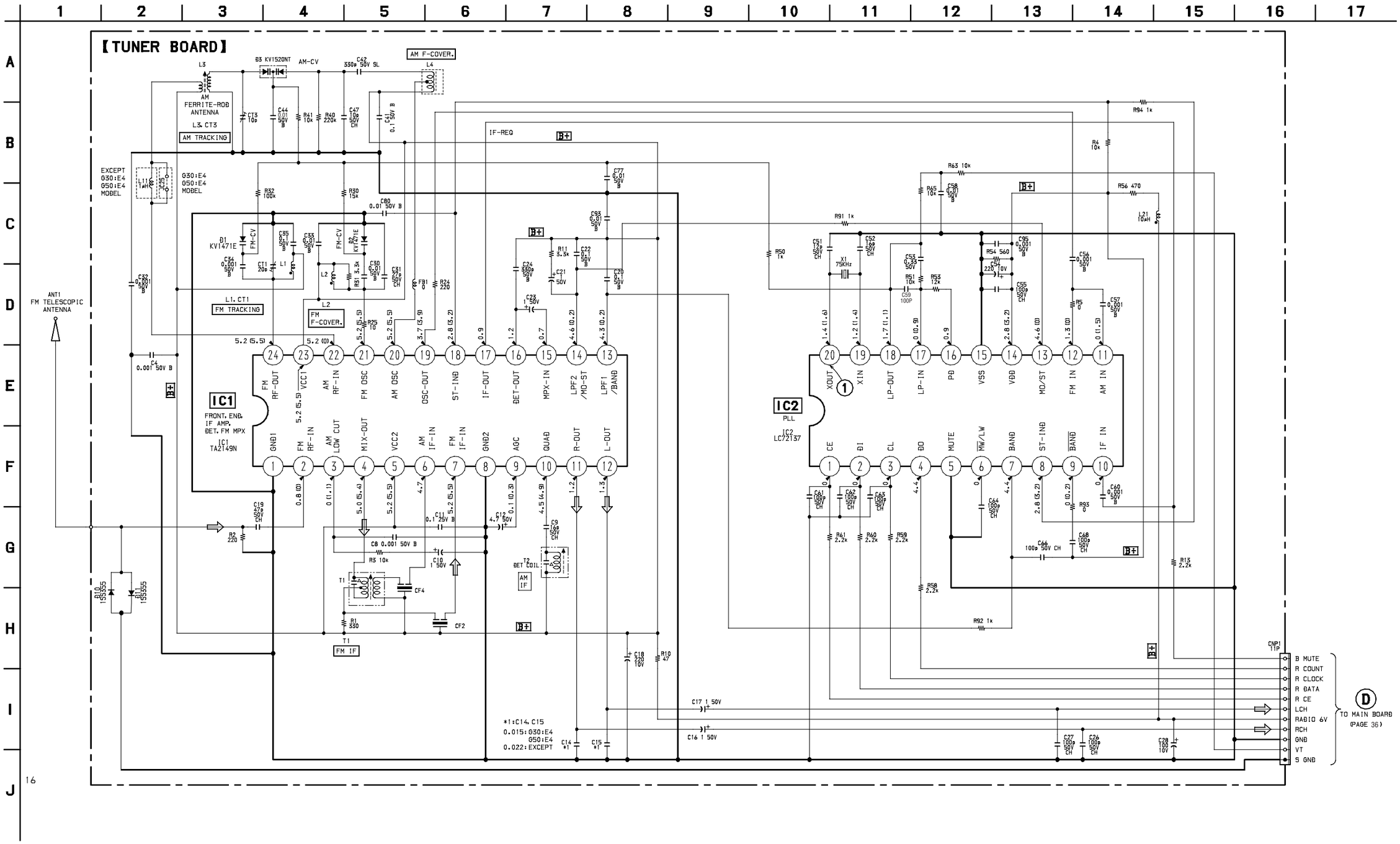
5-6. PRINTED WIRING BOARD – CASSETTE DECK SECTION –

• Refer to page 12 for Circuit Boards Location. • Refer to page 17 for Note on Printed Wiring Board.



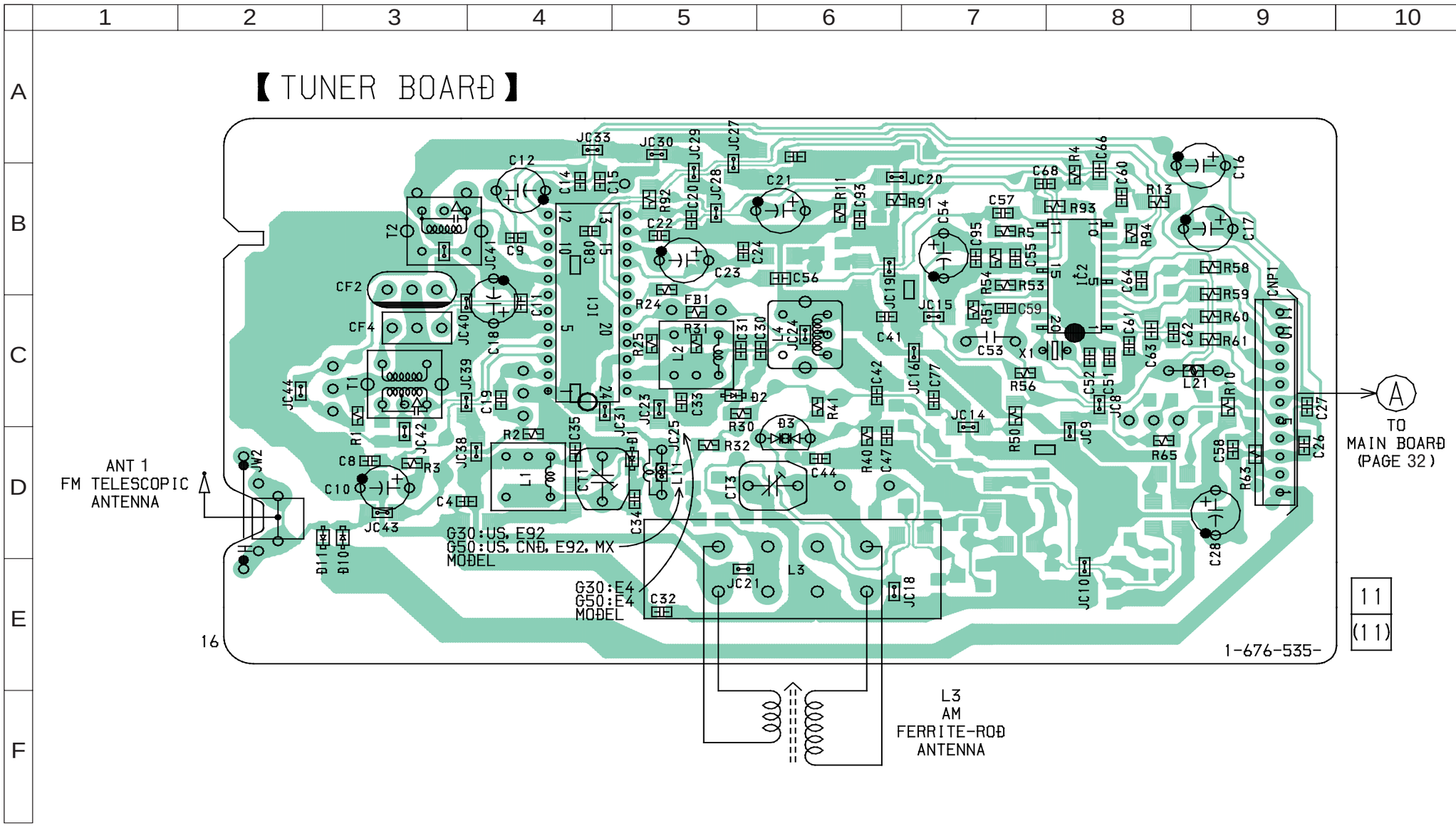
5-7. SCHEMATIC DIAGRAM – TUNER SECTION –

• Refer to page 17 for Note on Schematic Diagrams. • Refer to page 17 for Waveforms. • Refer to page 47 for IC Block Diagrams.



5-8. PRINTED WIRING BOARD – TUNER SECTION –

• Refer to page 12 for Circuit Boards Location. • Refer to page 17 for Note on Printed Wiring Board.

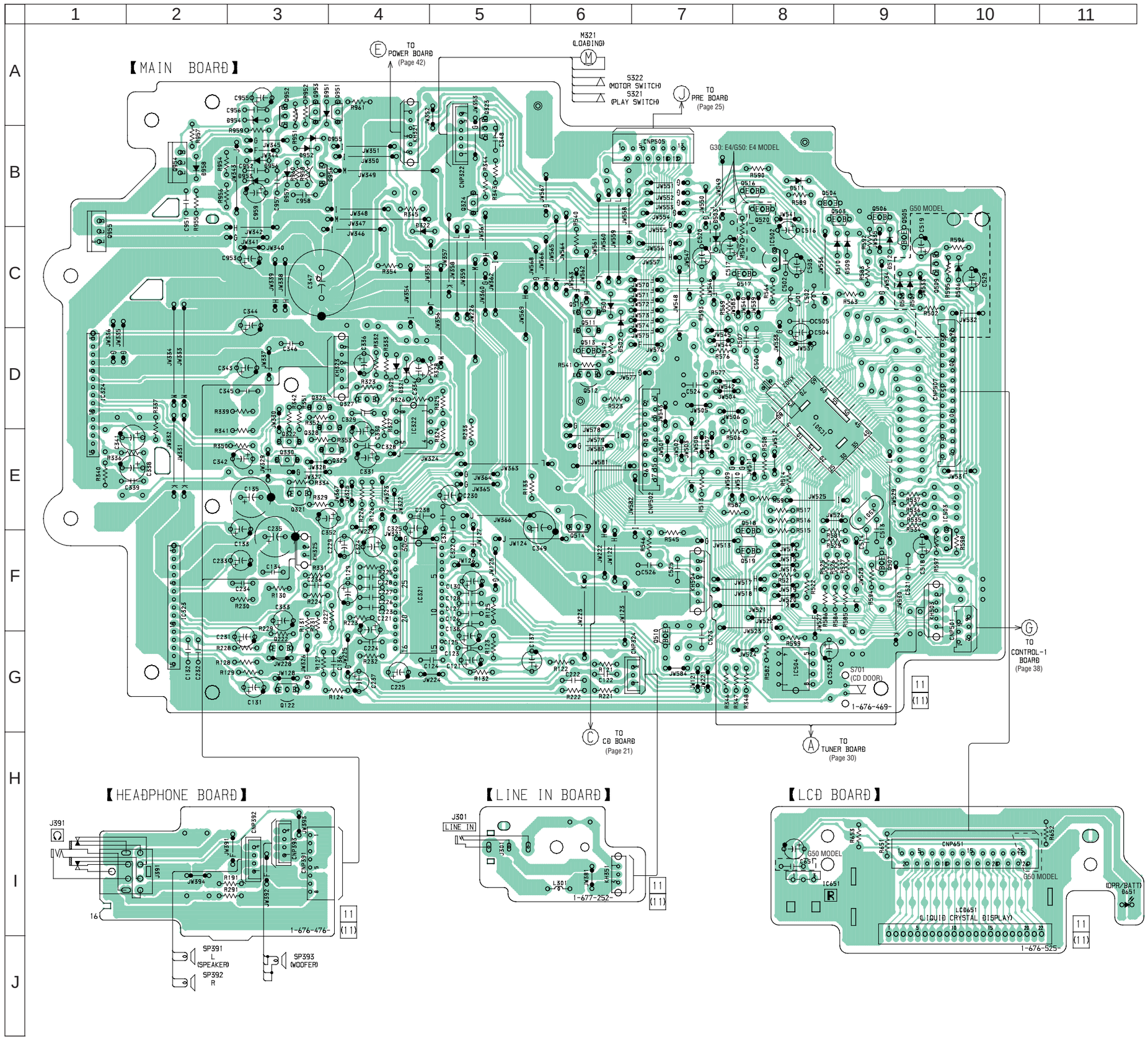


5-9. PRINTED WIRING BOARD – MAIN SECTION –

• Refer to page 12 for Circuit Boards Location. • Refer to page 17 for Note on Printed Wiring Board.

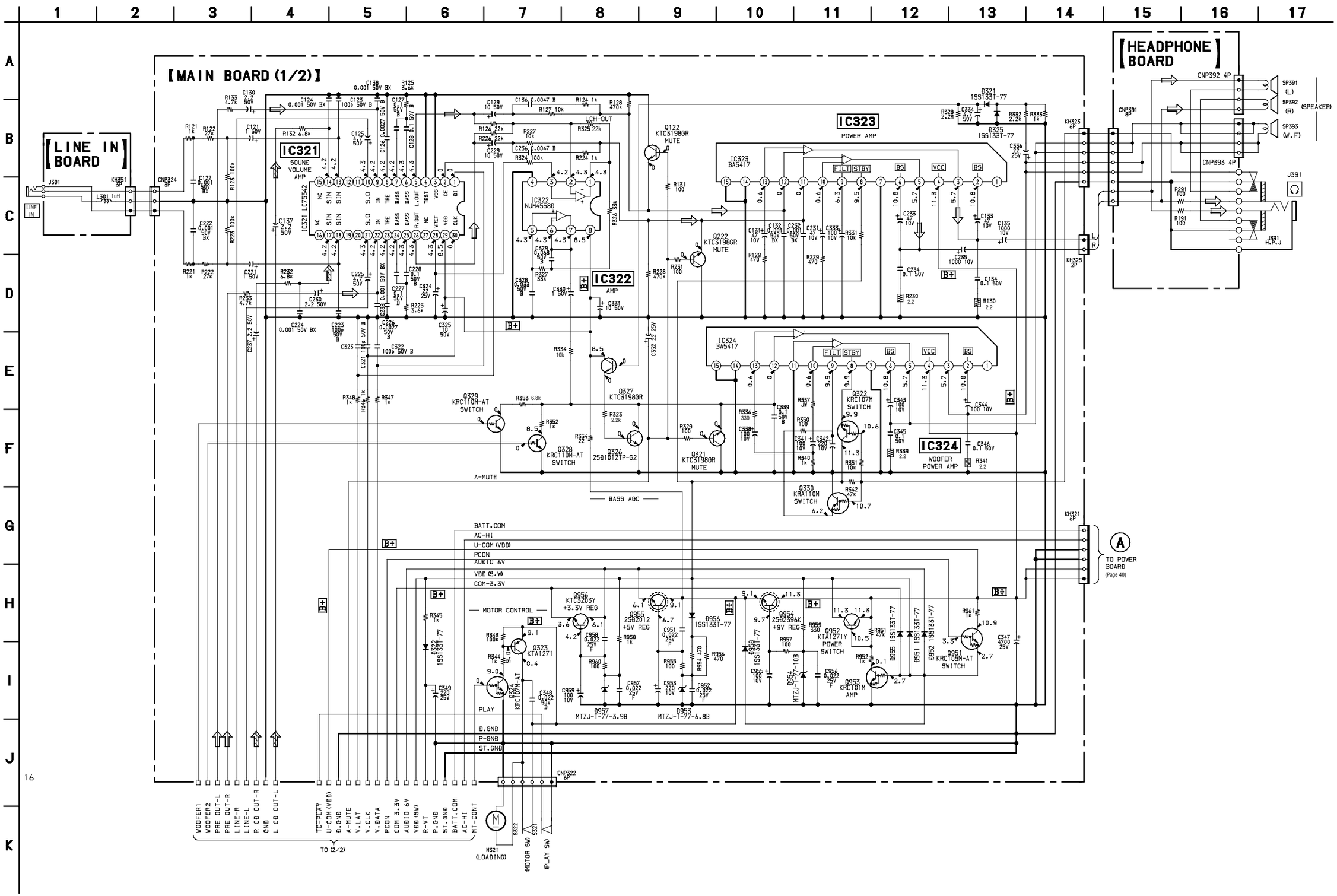
• **Semiconductor Location**

Ref. No.	Location
D321	D-4
D322	B-4
D325	D-4
D501	C-6
D502	D-6
D503	C-7
D506	C-10
D507	C-9
D508	C-9
D509	B-9
D510	B-9
D511	B-8
D512	B-9
D951	A-3
D952	B-3
D953	B-3
D954	A-3
D955	B-3
D956	B-3
D957	B-3
D958	B-2
IC321	F-4
IC322	D-4
IC323	F-2
IC324	D-1
IC501	D-8
IC502	B-8
IC503	E-10
IC504	G-8
Q122	G-3
Q222	G-3
Q321	E-3
Q322	E-3
Q323	A-4
Q324	B-4
Q326	D-3
Q327	D-4
Q328	E-4
Q329	E-4
Q330	D-3
Q503	B-9
Q504	B-8
Q506	B-9
Q507	F-9
Q509	C-10
Q510	F-7
Q511	C-6
Q512	D-6
Q513	D-6
Q514	E-6
Q515	C-6
Q516	B-8
Q517	C-8
Q518	E-8
Q519	F-8
Q520	B-8
Q951	A-4
Q952	A-3
Q953	A-3
Q954	B-2
Q955	C-1
Q956	B-3



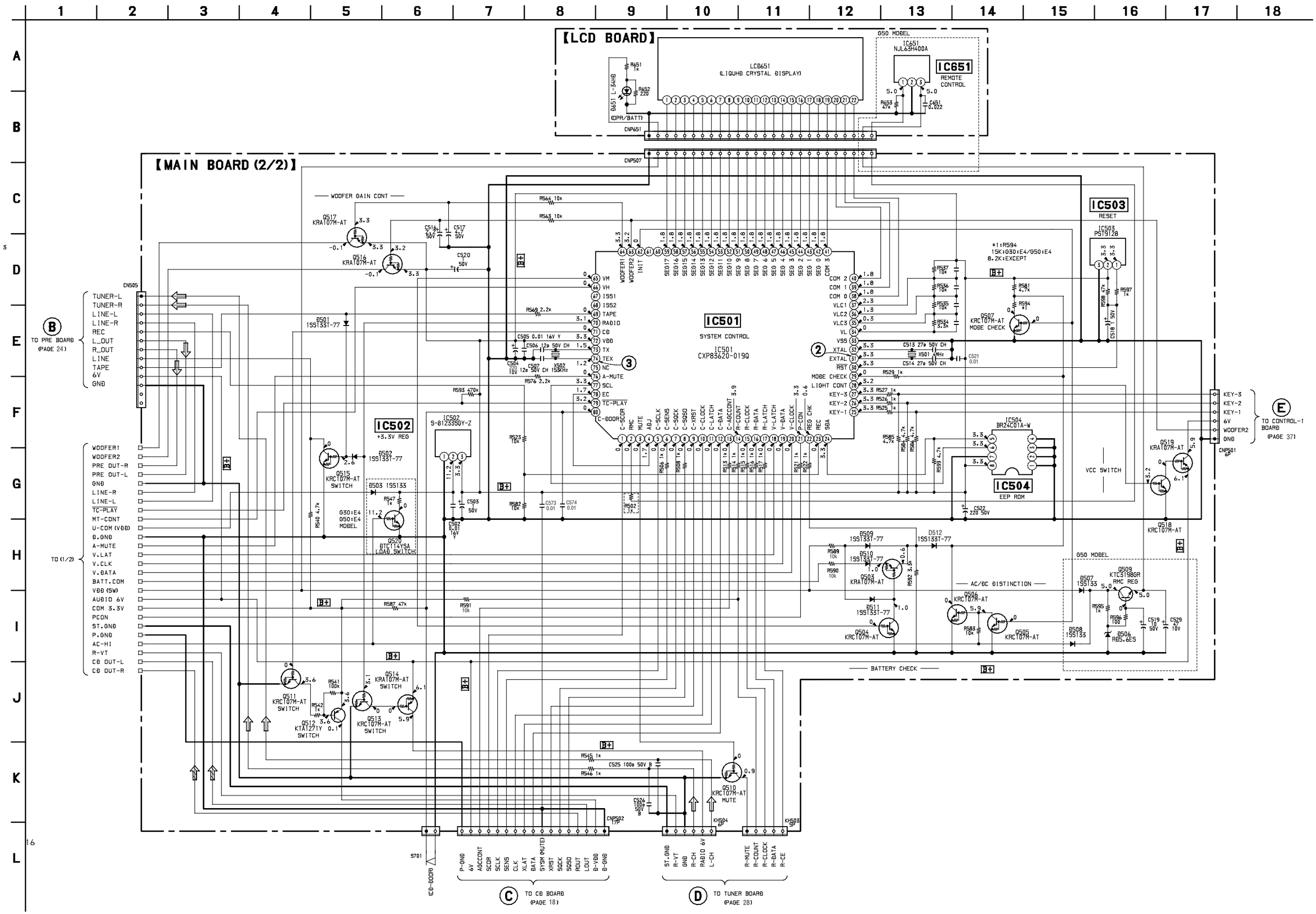
5-10. SCHEMATIC DIAGRAM – MAIN SECTION (1/2) –

• Refer to page 17 for Note on Schematic Diagrams. • Refer to page 48 for IC Block Diagrams.



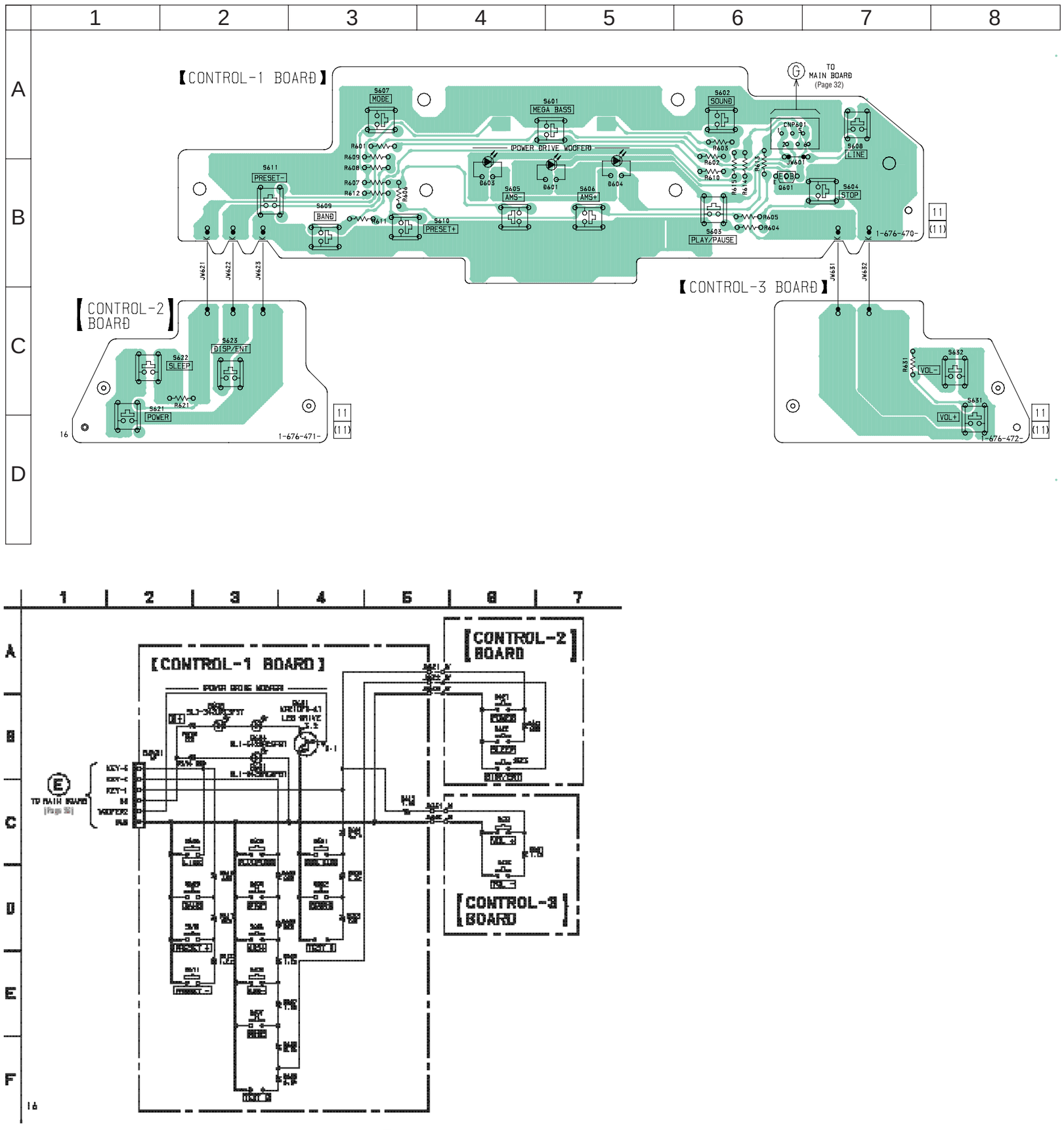
5-11. SCHEMATIC DIAGRAM – MAIN SECTION (2/2) –

• Refer to page 17 for Note on Schematic Diagrams. • Refer to page 12 for Circuit Boards Location.



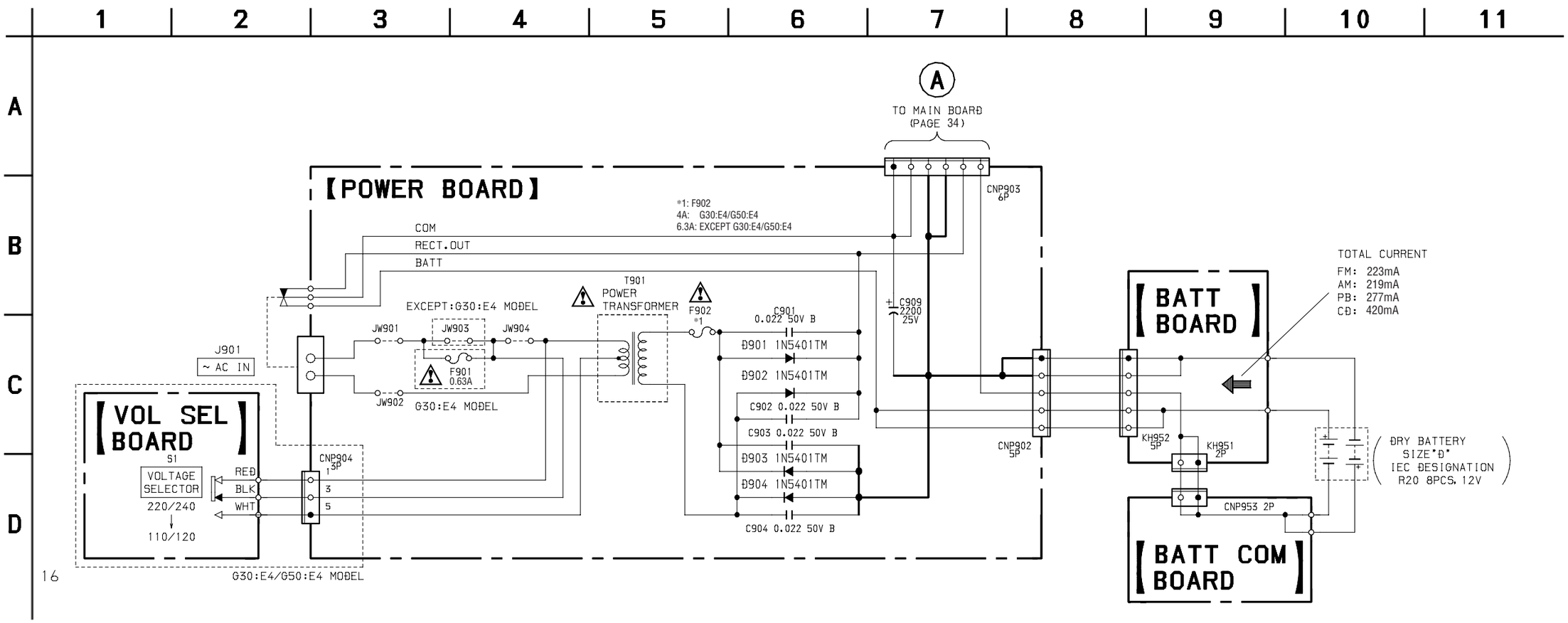
5-12. PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM – CONTROL SECTION –

• Refer to page 12 for Circuit Boards Location. • Refer to page 17 for Note on Printed Wiring Board.
• Refer to page 17 for Note on Schematic Diagrams.



5-13. SCHEMATIC DIAGRAM – POWER SECTION –

• Refer to page 17 for Note on Schematic Diagrams.



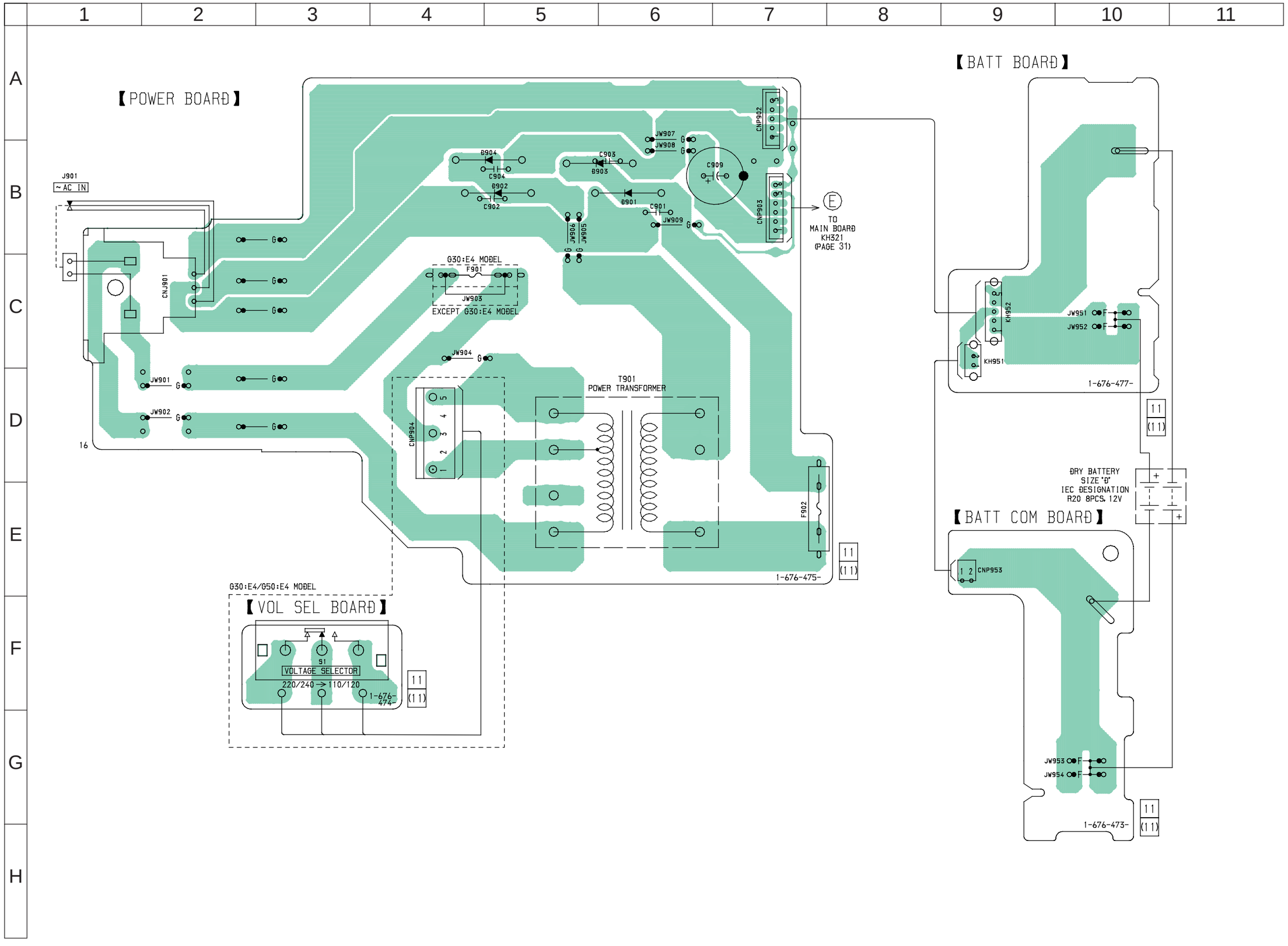
16

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

5-14. PRINTED WIRING BOARD – POWER SECTION –

• Refer to page 17 for Note on Printed Wiring Board.



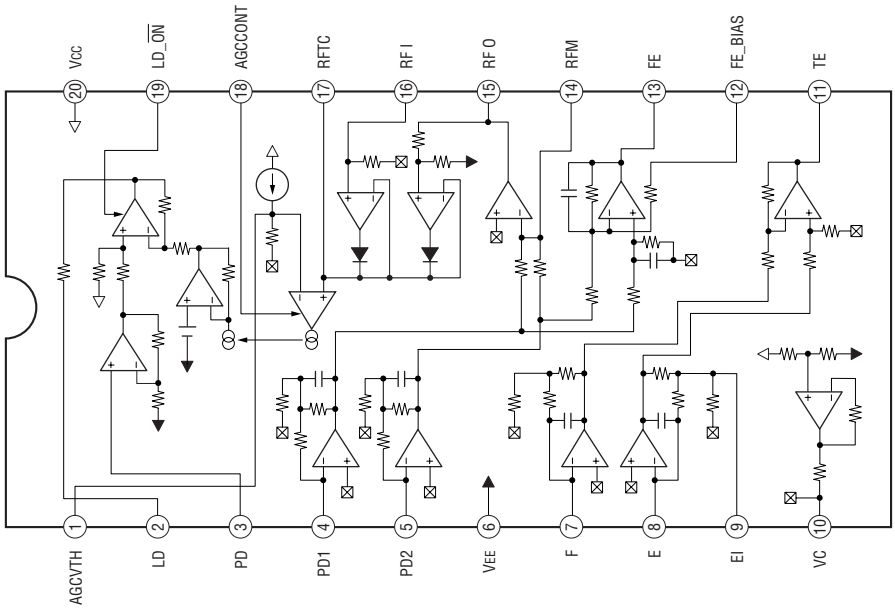
5-16. IC PIN FUNCTION DESCRIPTION

• IC501 CXP83620-019Q (SYSTEM CONTROL)

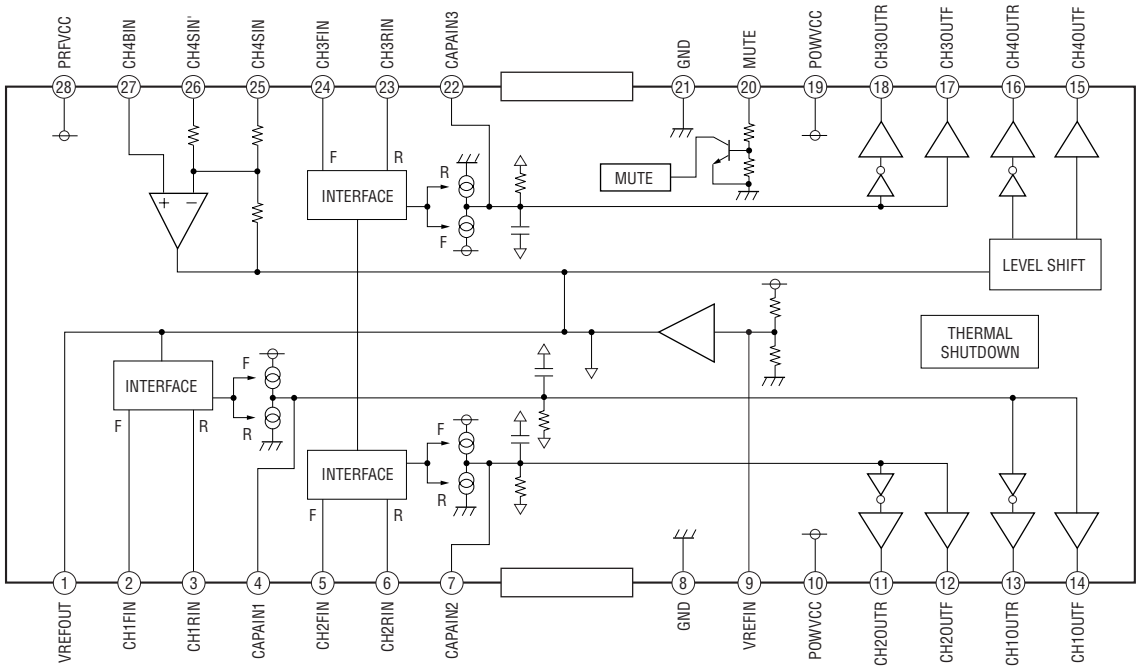
Pin No.	Pin Name	I/O	Description
1	C-SCOR	I	CD SCOR input
2	RMC	I	RMC input terminal
3	MUTE	O	Mute
4	ADJ	O	f tex divided-by-16 frequency output terminal
5	C-SCLK	I/O	CD SENS read-out clock
6	C-SENS	I/O	CD SENS input
7	C-SQCK	I/O	CD SUBQ read-out clock
8	C-SQSO	I/O	CD SUBQ data IN
9	C-XRST	I/O	CD SYSTEM reset
10	C-CLOCK	I/O	CD SYSTEM clock
11	C-LATCH	I/O	CD SYSTEM latch
12	C-DATA	I/O	CD COMMAND OUT
13	C-AGCCONT	I/O	CD AGCCONT output
14	R-COUNT	I/O	Radio data IN
15	R-CLOCK	I/O	Radio clock
16	R-DATA	I/O	Radio data
17	R-LATCH	I/O	Radio latch
18	V-LATCH	I/O	VCL IC latch
19	V-DATA	I/O	VOL IC data
20	V-CLOCK	I/O	VOL IC clock
21	P-CON	I/O	Power control
22	REG CHK	I/O	Power supply monitoring port
23	REC	I/O	REC input terminal
24	SDA	I/O	EEPROM
25	KEY-1	I/O	Key input terminal
26	KEY-2	I/O	Key input terminal
27	KEY-3	I/O	Key input terminal
28	LIGHT CONT	I/O	Key input terminal
29	MODE CHECK	I/O	SET specification read-out terminal
30	$\overline{\text{RST}}$	I	RST terminal
31	EXTAL	I	External 4 MHz is connected to this terminal (input)
32	XTAL	—	External 4 MHz is connected to this terminal
33	Vss	—	Ground
34	VL	O	LCD bias control
35 – 37	VLC 3 – 1	O	LCD bias power supply
38 – 41	COM 0 – 3	—	LCD common output
42 – 59	SEG 0 – 17	—	LCD common output
60	NC	O	Not connected
61	NC	O	Not connected
62	INIT	O	Terminal for initial setting
63	WOOFER2	O	Terminal for tone control
64	WOOFER1	O	DBB light control output
65	VM	O	Center voltage read-out terminal
66	VH	O	Supply voltage read-out terminal
67	ISS-1	O	ISS1
68	ISS-2	O	ISS2
69	TAPE	O	Tape function output
70	RADIO	O	Radio function output
71	CD	O	CD function output
72	V_{DD}	—	Power supply
73	TX	—	External 150 kHz oscillator is connected to this terminal
74	TEX	—	External 150 kHz oscillator is connected to this terminal
75	NC	—	Not connected
76	A-MUTE	O	Audio mute output terminal
77	SCL	O	Clock output EEPROM
78	EC	I	Event counter input
79	$\overline{\text{TC-PLAY}}$	I	TC-play input
80	C-DOOR	I	Open/close of CD lid.

5-17. IC BLOCK DIAGRAMS

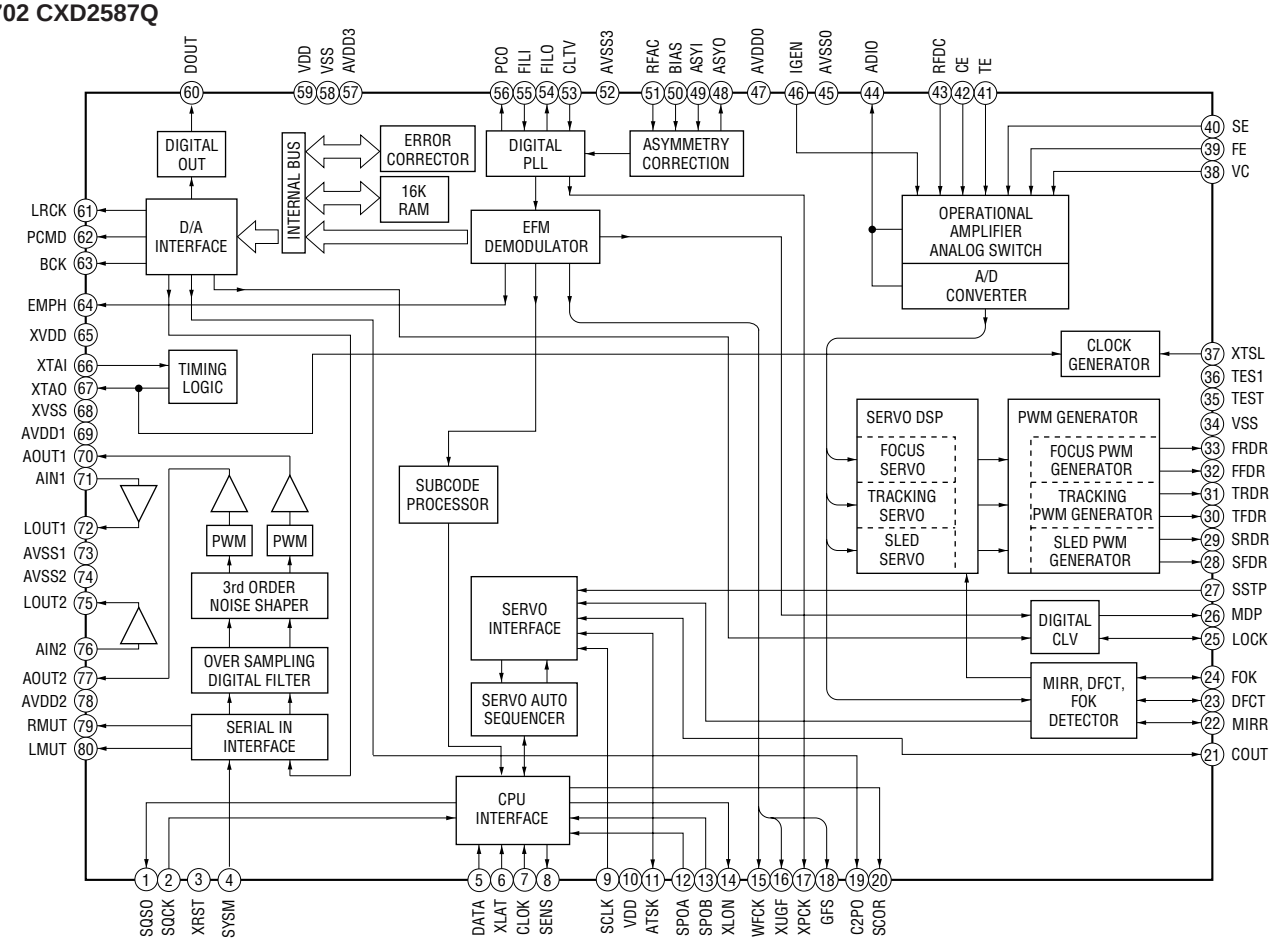
IC701 CXA2550M



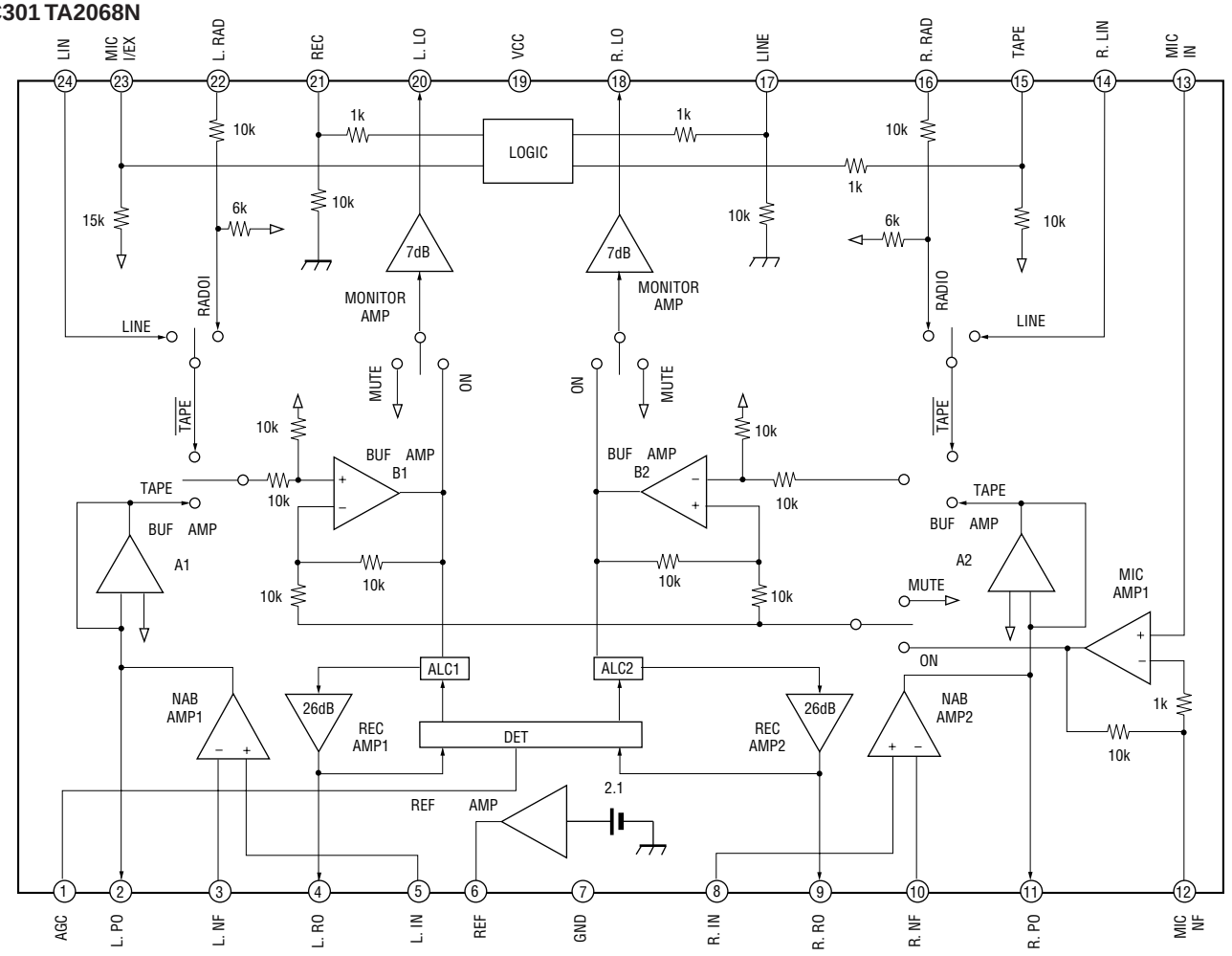
IC703 BA5974FP



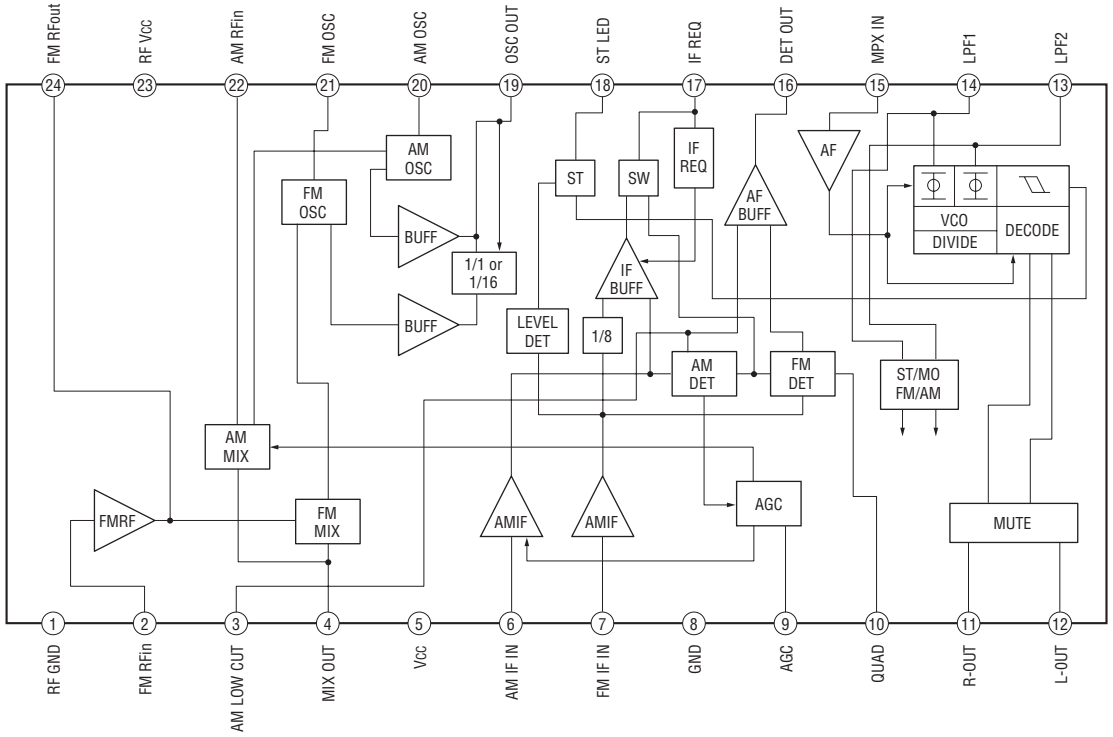
IC702 CXD2587Q



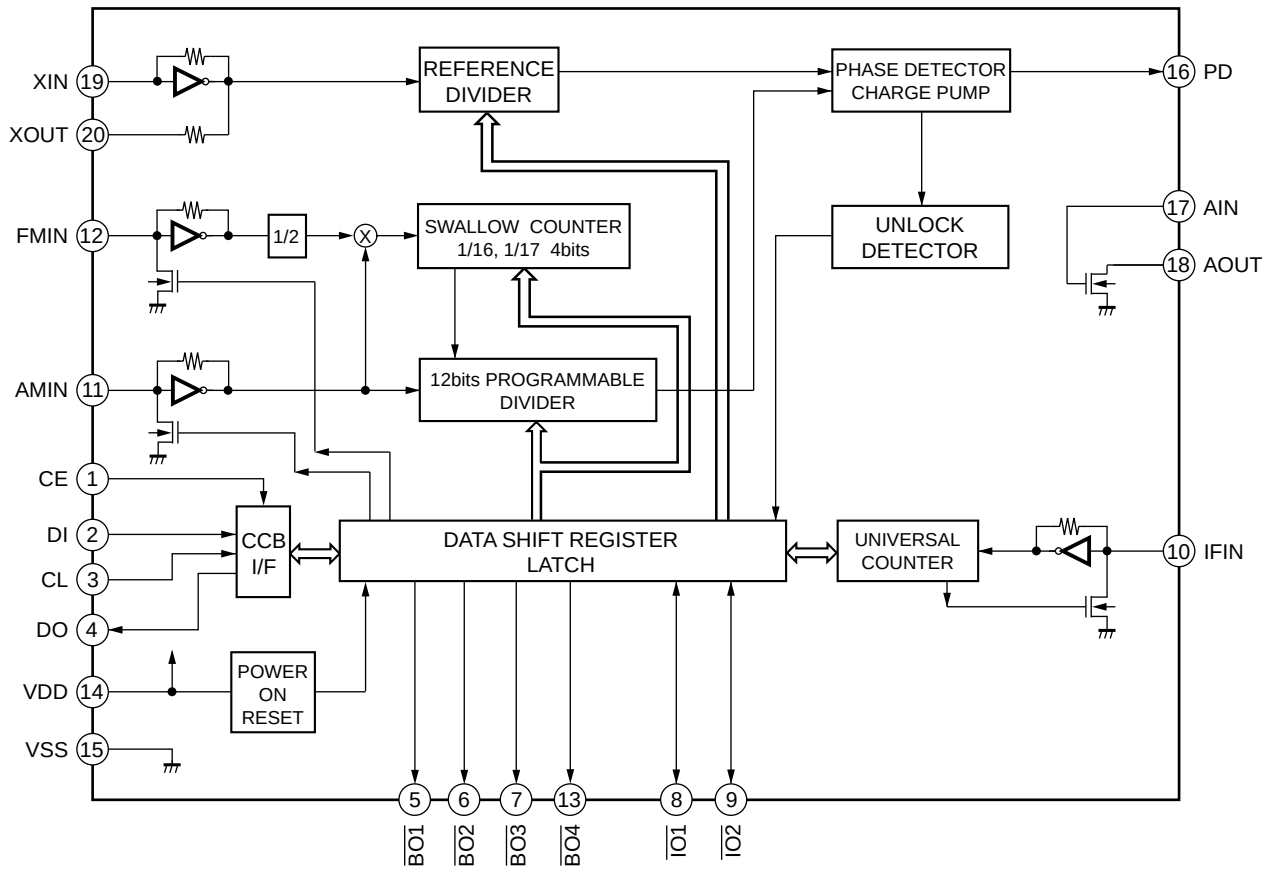
IC301 TA2068N



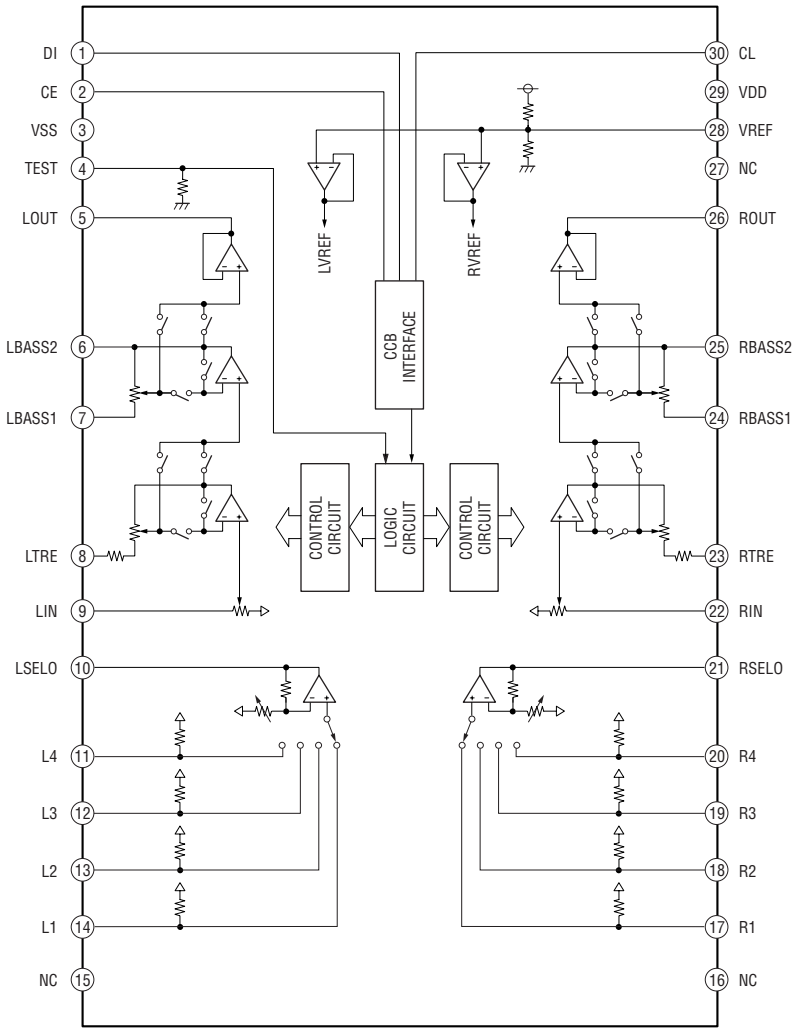
IC1 TA2149N



IC2 LC72137



IC321 LC75342



SECTION 6
EXPLODED VIEWS

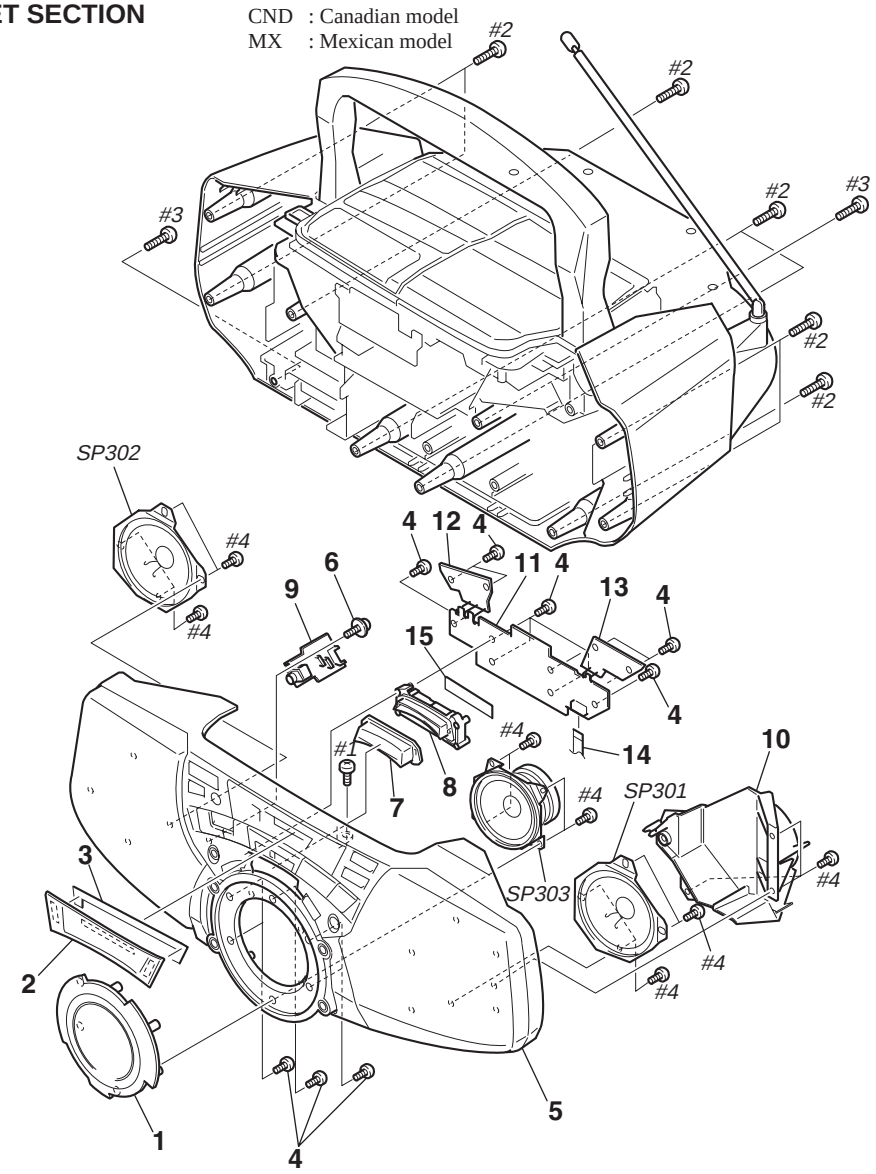
NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  E4 : 220 V-240 V AC area model
  E92 : 120 V AC area model
  CND : Canadian model
  MX : Mexican model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

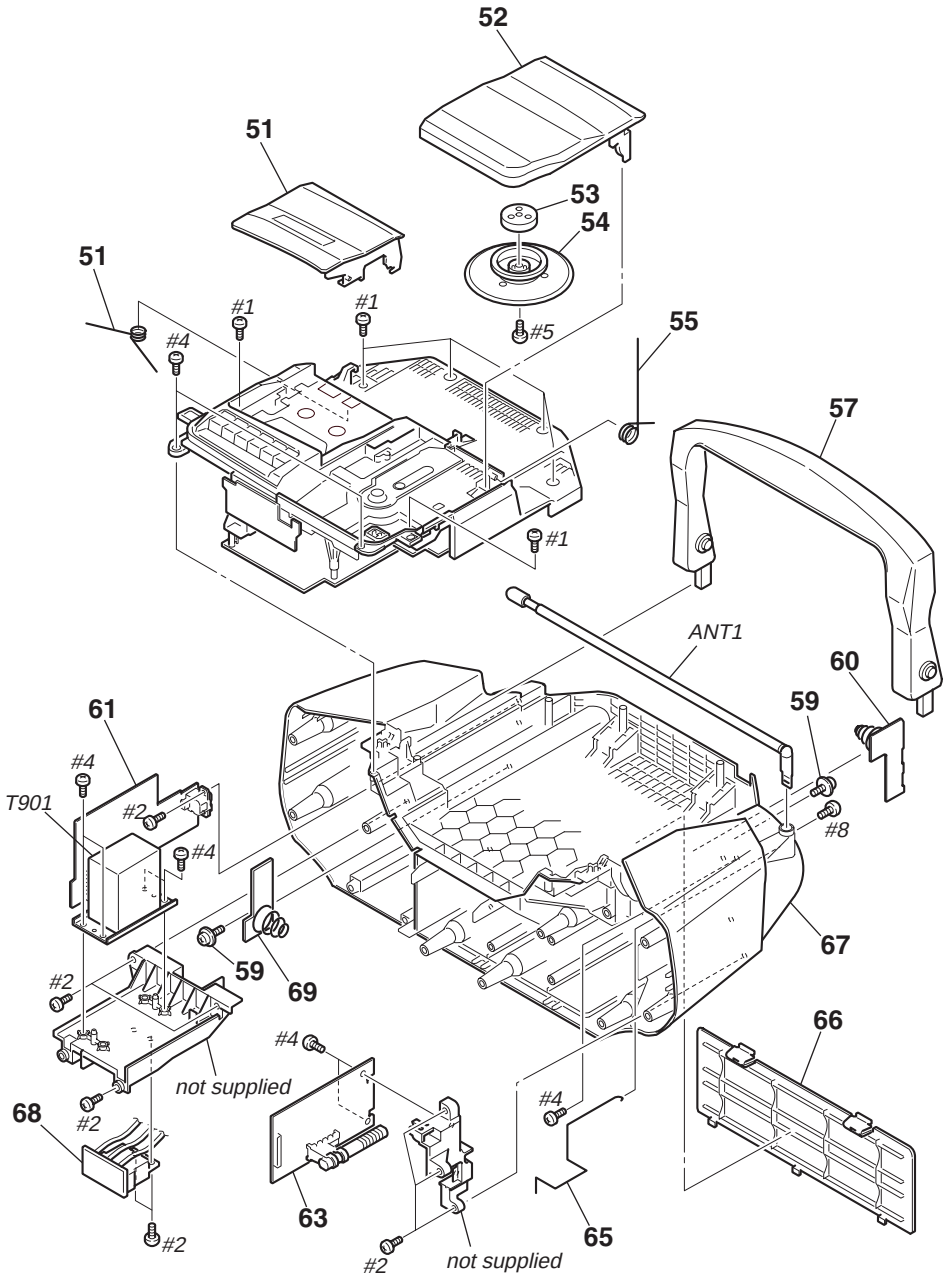
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. FRONT CABINET SECTION



Ref. No.	Part No.	Description	Remarks
1	3-041-981-01	COVER(WOOFER) (G50:US,CND,MX)	
1	3-041-981-11	COVER(WOOFER) (G30/G50:E4,E92)	
2	3-041-968-01	WINDOW (LCD) (G50:US,MX)	
2	3-041-968-11	WINDOW (LCD) (G30)	
2	3-041-968-21	WINDOW (LCD) (G50:CND,E4,E92)	
3	3-049-080-01	SHEET, DIFUSION	
4	4-951-620-01	SCREW(2.6X8), +BVTP	
5	X-3378-767-1	CABINET (FRONT) SUB ASSY (G50:US,CND,MX)	
5	X-3378-773-1	CABINET (FRONT) SUB ASSY (G50:E4,E92)	
5	X-3378-782-1	CABINET (FRONT) SUB ASSY (G30)	
6	3-921-725-01	SCREW(2.6X10), +PWH	
7	3-041-979-01	BUTTON (LED)	
8	3-041-980-01	BUTTON (MDW)	
* 9	1-676-476-11	HEAD PHONE BOARD	
10	3-041-984-01	COVER (SPK)	
* 11	A-3323-461-A	CONTROL-1 BOARD, COMPLETE (G30:US,E92/G50:US,CND,E92,MX)	
* 11	A-3323-514-A	CONTROL-1 BOARD, COMPLETE (G30:E4/G50:E4)	
* 12	1-676-471-11	CONTROL-2 BOARD	
* 13	1-676-472-11	CONTROL-3 BOARD	
14	1-792-040-11	WIRE, PARALLEL (6 CORE)	
15	3-048-654-01	SHEET, ADHESIVE (LCD)	
SP301	1-529-583-11	SPEAKER (10cm)	
SP302	1-529-583-11	SPEAKER (10cm)	
SP303	1-529-582-11	SPEAKER (8cm)	

6-2. REAR CABINET SECTION

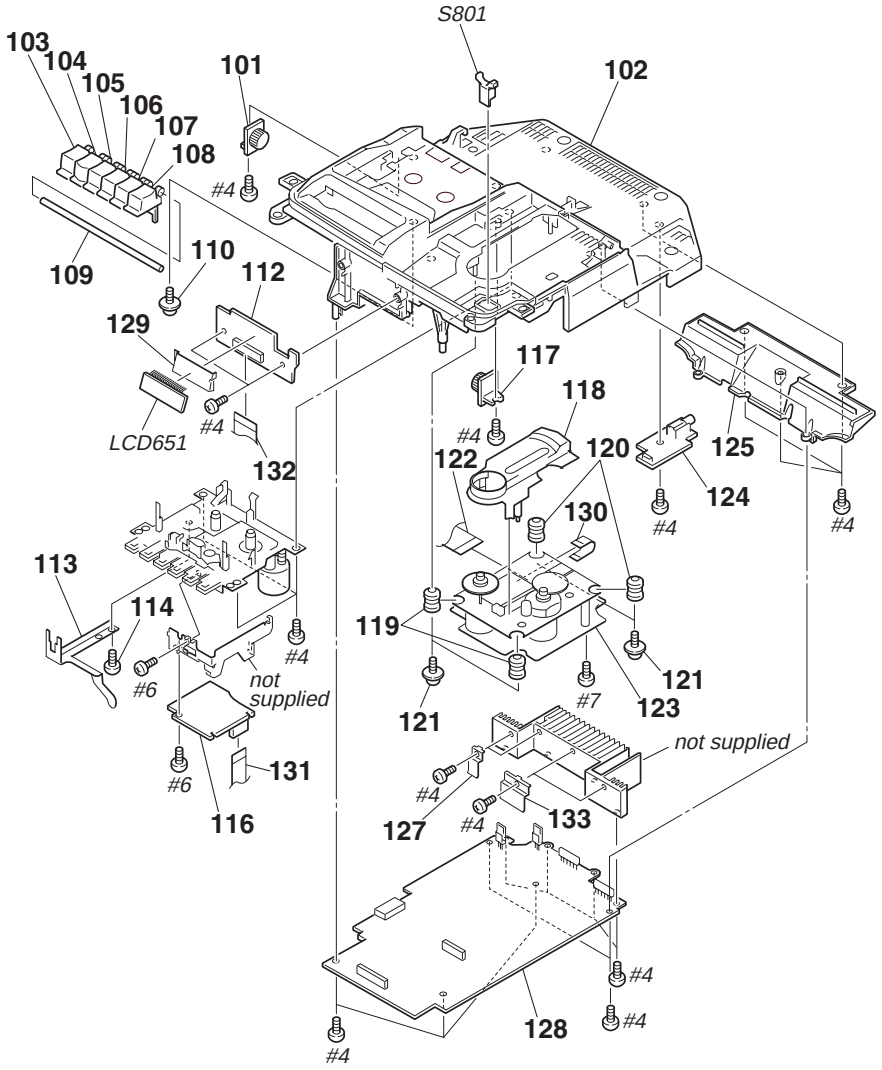


Ref. No.	Part No.	Description	Remarks
51	X-3378-766-1	HOLDER ASSY, CASSETTE (G50:US,CND,MX)	
51	X-3378-776-1	HOLDER ASSY, CASSETTE (G30/G50:E4,E92)	
52	3-041-965-01	LID(CD) (G50:US,CND,MX)	
52	3-041-965-11	LID(CD) (G30/G50:E4,E92)	
53	1-452-899-11	MAGNET	
54	3-021-020-01	PLATE, CHUCKING	
55	3-041-992-01	SPRING (CD)	
56	3-041-993-01	SPRING (CASSETTE)	
57	3-041-967-01	HANDLE (G50:US,CND,MX)	
57	3-041-967-11	HANDLE (G30/G50:E4,E92)	
59	4-960-167-01	SCREW (3X8) (DIA. 10), +WH	
* 60	1-676-473-11	BATT COM BOARD	
* 61	1-676-475-11	POWER BOARD	
* 63	A-3322-456-A	TUNER BOARD, COMPLETE (G30:US,E92/ G50:US,CND,E92,MX)	

Ref. No.	Part No.	Description	Remarks
* 63	A-3322-558-A	TUNER BOARD, COMPLETE (G30:E4/G50:E4)	
65	3-041-991-01	TERMINAL, ANTENNA	
66	3-389-436-41	LID,BATTERY CASE (G50:US,CND,MX)	
66	3-389-436-51	LID,BATTERY CASE (G30:US,E4,E92/G50:E4,E92)	
67	3-041-963-01	CABINET (REAR) (G50:US)	
67	3-041-963-11	CABINET (REAR) (G30:US)	
67	3-041-963-41	CABINET (REAR) (G50:CND,MX)	
67	3-041-963-61	CABINET (REAR) (G30:E4/G50:E4)	
67	3-041-963-71	CABINET (REAR) (G30:E92/G50:E92)	
68	1-676-474-11	VOL SEL BOARD (G30:E4/G50:E4)	
* 69	1-676-477-11	BATT BOARD	
ANT1	1-501-883-21	ANTENNA, TELESCOPIC	
⚠T901	1-435-296-11	TRANSFORMER, POWER (G30:US,E92/ G50:US,CND,E92,MX)	
⚠T901	1-435-298-11	TRANSFORMER, POWER (G30:E4/G50:E4)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

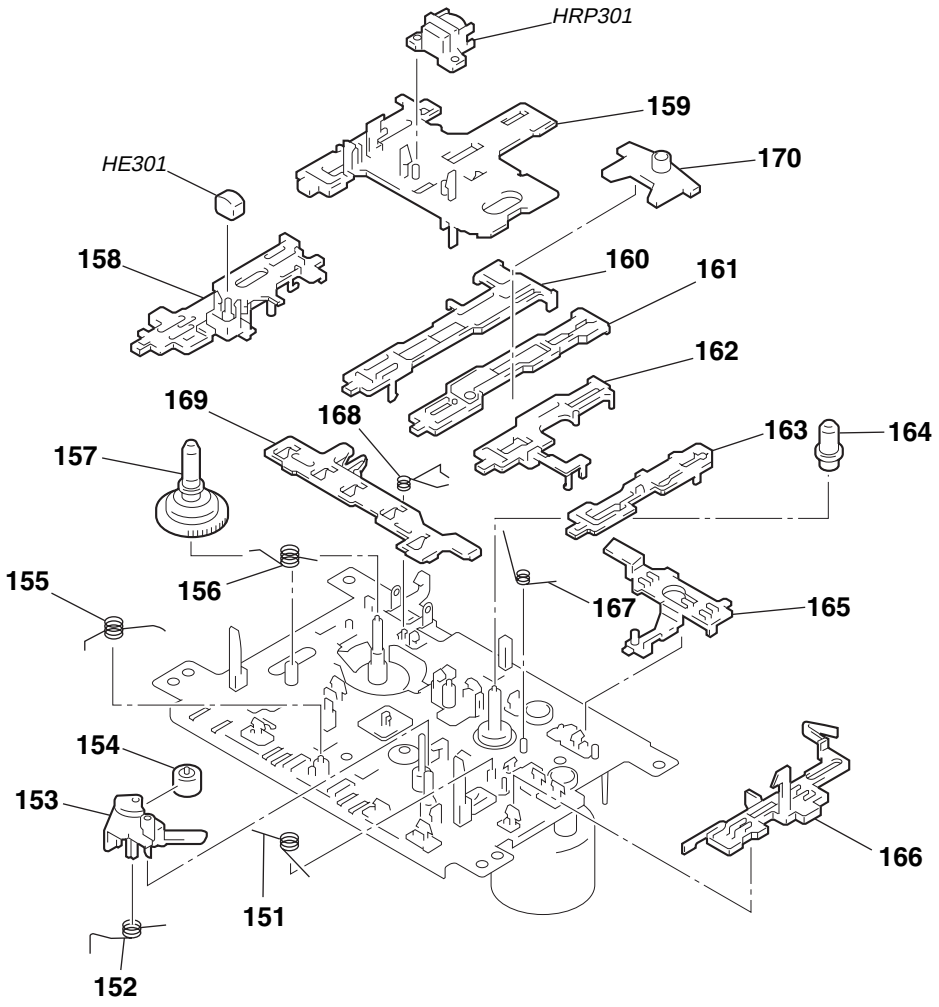
6-3. UPPER CABINET SECTION



Ref. No.	Part No.	Description	Remarks
101	3-047-468-01	DAMPER	
102	3-041-964-01	CABINET (UPPER) (G50:US,CND,MX)	
102	3-041-964-11	CABINET (UPPER) (G30/G50:E4,E92)	
103	3-032-041-11	BUTTON (REC) (G50:US,CND,MX)	
103	3-032-041-21	BUTTON (REC) (G30/G50:E4,E92)	
104	3-032-042-11	BUTTON (PLAY) (G50:US,CND,MX)	
104	3-032-042-21	BUTTON (PLAY) (G30/G50:E4,E92)	
105	3-032-043-11	BUTTON (REW) (G50:US,CND,MX)	
105	3-032-043-21	BUTTON (REW) (G30/G50:E4,E92)	
106	3-032-044-11	BUTTON (FF) (G50:US,CND,MX)	
106	3-032-044-21	BUTTON (FF) (G30/G50:E4,E92)	
107	3-032-045-11	BUTTON (STOP) (G50:US,CND,MX)	
107	3-032-045-21	BUTTON (STOP) (G30/G50:E4,E92)	
108	3-032-046-11	BUTTON (PAUSE) (G50:US,CND,MX)	
108	3-032-046-21	BUTTON (PAUSE) (G30/G50:E4,E92)	
109	3-031-560-01	SHAFT (MD)	
110	4-960-167-01	SCREW (3X8) (DIA. 10), +WH	
* 112	1-676-525-11	LCD BOARD	
* 113	3-041-554-01	LEVER (REC)	
114	4-951-620-01	SCREW (2.6X8), +BVTP	
* 116	A-3322-448-A	PRE BOARD, COMPLETE	
117	3-047-468-11	DAMPER	

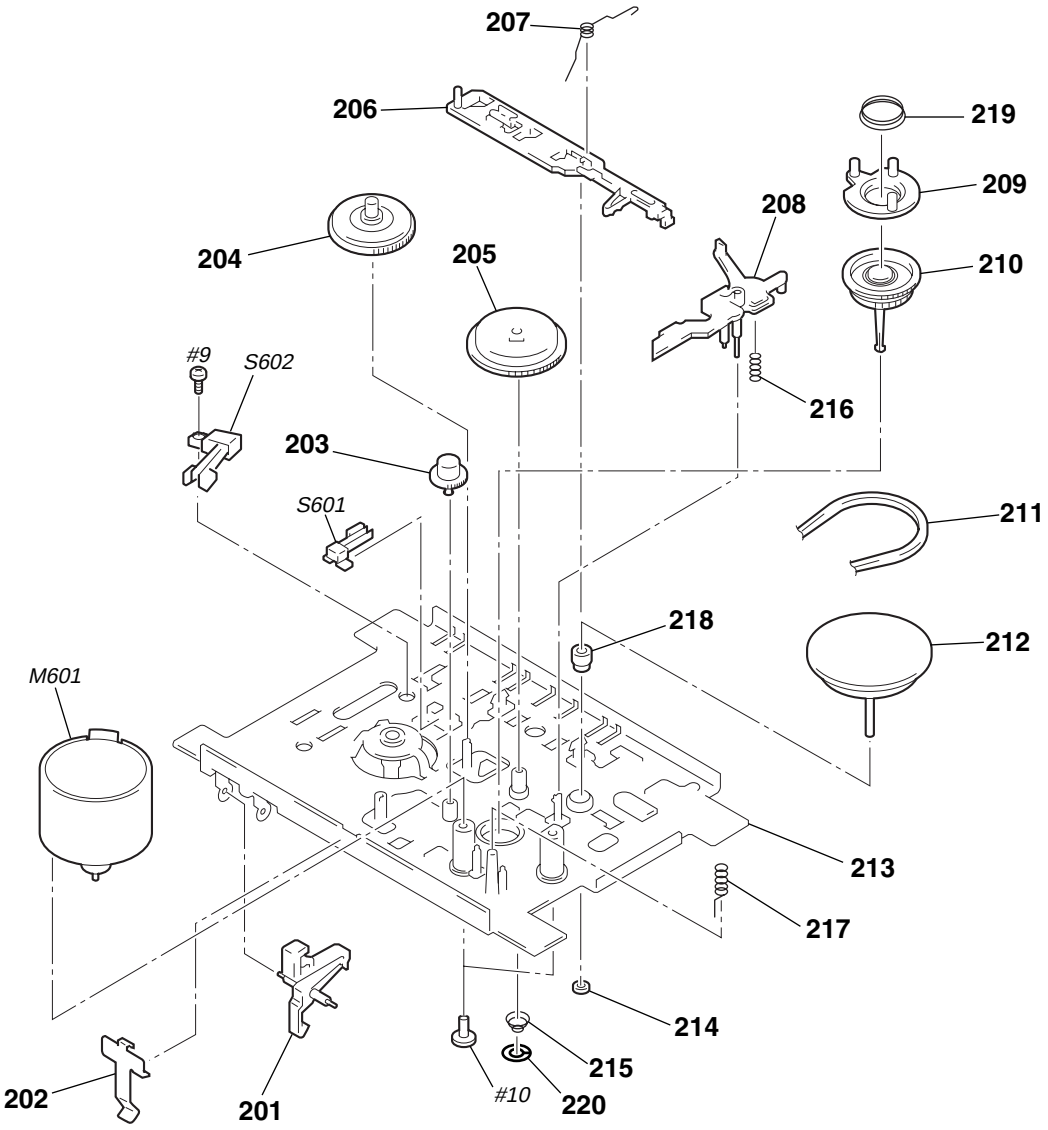
Ref. No.	Part No.	Description	Remarks
118	3-923-736-01	COVER, CD	
119	3-910-095-21	RUBBER, VIBRATION PROOF	
120	3-910-095-31	RUBBER, VIBRATION PROOF	
121	3-921-725-01	SCREW (2.6X10), +PWH	
122	1-792-241-11	WIRE, PARALLEL (17 CORE)	
* 123	A-3322-451-A	CD BOARD, COMPLETE	
* 124	1-677-252-11	LINE IN BOARD	
125	3-044-255-01	PLATE, HEAT RESISTING	
127	3-045-003-01	HOLDER (IC)	
* 128	A-3322-472-A	MAIN BOARD, COMPLETE (G30:US,E92)	
* 128	A-3322-477-A	MAIN BOARD, COMPLETE (G50:US,CND,E92,MX)	
* 128	A-3322-619-A	MAIN BOARD, COMPLETE (G50:E4)	
* 128	A-3322-622-A	MAIN BOARD, COMPLETE (G30:E4)	
* 129	3-041-989-01	HOLDER (LCD)	
130	1-792-209-11	WIRE, PARALLEL (16 CORE)	
131	1-792-240-11	WIRE, PARALLEL (11 CORE)	
132	1-792-041-11	WIRE, PARALLEL (26 CORE) (G50)	
132	1-792-097-11	WIRE, PARALLEL (24 CORE) (G30)	
133	3-048-359-01	HOLDER (IC, B)	
LCD651	1-803-872-11	DISPLAY PANEL, LIQUID CRYSTAL	
S801	1-692-960-11	SWITCH, PUSH (1 KEY)	

6-4. MECHANISM DECK SECTION (1)
(MF-V10-117)



Ref. No.	Part No.	Description	Remarks
151	3-933-010-01	SPRING (S/P), TORSION	
152	3-933-025-01	SPRING (P), TORSION	
153	3-933-026-01	LEVER (P)	
154	3-933-024-01	ROLLER, PINCH	
155	3-933-019-01	SPRING (F/R), TORSION	
156	3-933-028-01	SPRING (FWD), TORSION	
157	3-933-016-01	GEAR (S REEL)	
158	3-008-590-01	SLIDER (REC)	
159	3-008-592-01	BASE (H), HEAD	
* 160	3-008-588-01	SLIDER (REW)	
* 161	3-008-589-13	SLIDER (FF)	
* 162	3-008-587-01	SLIDER (STOP)	
* 163	3-008-591-01	SLIDER (PAUSE)	
164	3-933-004-01	CLAW, REEL	
* 165	3-933-021-01	SLIDER (FRP)	
* 166	3-933-006-01	SLIDER (EJECT)	
167	3-934-833-01	SPRING (FRP)	
168	3-022-794-02	SPRING (BT)	
169	3-933-007-01	PLATE, LOCK	
* 170	3-012-114-01	LEVER (FR)	
HE301	1-543-876-14	HEAD (ERASE)	
HRP301	1-500-668-11	HEAD, MAGNETIC(RECORD/PLAYBACK)	

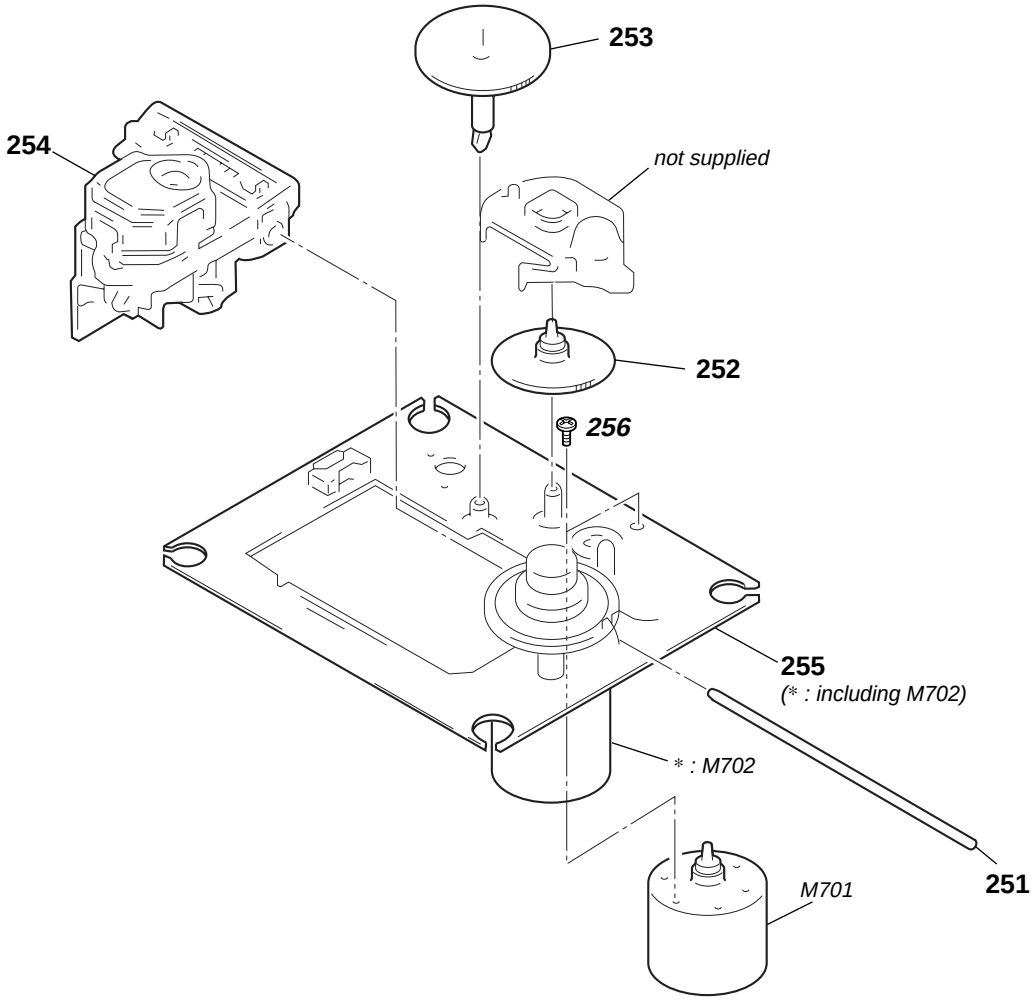
6-5. MECHANISM DECK SECTION (2)
(MF-V10-117)



Ref. No.	Part No.	Description	Remarks
201	3-933-029-01	LEVER, ERASING PREVENTION	
202	3-933-182-01	SPRING, CASSETTE	
203	3-932-995-01	GEAR (MID)	
204	X-3371-667-1	CLUTCH ASSY	
205	3-932-997-01	GEAR (CAM)	
* 206	3-932-999-01	SLIDER (SW)	
207	3-932-998-01	SPRING (GROUND), TORSION	
208	3-009-648-01	LEVER (S.OFF)	
209	3-936-438-01	LEVER (K)	
210	X-3373-572-1	REEL ASSY (N), T	
211	3-933-020-01	BELT	
212	X-3372-924-1	FLYWHEEL ASSY	

Ref. No.	Part No.	Description	Remarks
213	3-932-993-01	CHASSIS, OUTSERT	
214	3-343-358-01	RING, RETAINING	
215	3-933-005-01	SPRING (CAM), COMPRESSION	
216	3-939-383-02	SPRING, COMPRESSION	
217	3-937-760-01	SPRING (GROUND), COMPRESSION	
218	3-934-336-01	BEARING	
219	3-009-650-02	SPRING (K), COMPRESSION	
220	3-016-349-01	WASHER	
M601	A-3320-446-A	MOTOR ASSY (LOADING) (WITH PULLEY)	
S601	1-762-679-11	SWITCH, LEAF (MD POWER)	
S602	1-771-059-12	SWITCH, LEAF (PLAY)	

6-6. OPTICAL PICK-UP SECTION (KSM-213CDP)



Ref. No.	Part No.	Description	Remarks
251	2-626-908-01	SHAFT, SLED	
252	2-627-003-01	GEAR (B)(RP)	
253	2-625-188-02	GEAR (A)	
⚠254	8-848-483-05	OPTICAL PICK-UP KSS-213C	
255	X-2162-709-1	CHASSIS ASSY (CDP)(RP), MOTOR (SPINDLE) (INCLUDING M702)	
256	3-713-786-51	SCREW + P2 x 3	
M701	X-2625-769-1	GEAR ASSY (MB)(RP), MOTOR (SLED)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

BATT | BATT COM | CD

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- Abbreviation
  E4 : 220 V-240 V AC area model
  E92 : 120 V AC area model
  CND : Canadian model
  MX : Mexican model
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remarks
*	1-676-477-11	BATT BOARD			
		**********			
	3-028-595-02	SPRING (-) (L), BATTERY			
		< CABLE >			
* KH951	1-573-287-11	HOLDER, CABLE 2P			
* KH952	1-565-386-11	HOLDER, CABLE 5P			
**********					
*	1-676-473-11	BATT COM BOARD			
		**********			
	3-028-595-02	SPRING (-) (L), BATTERY			
		< CONNECTOR >			
* CNP953	1-580-163-11	PIN, CONNECTOR (PC BOARD) 2P			
**********					
*	A-3322-451-A	CD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C701	1-104-665-11	ELECT	100uF	20.00% 10V	
C702	1-115-185-11	CERAMIC CHIP	0.033uF	10.00% 50V	
C703	1-163-243-11	CERAMIC CHIP	47PF	5.00% 50V	
C704	1-104-664-11	ELECT	47uF	20.00% 10V	
C706	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C707	1-104-665-11	ELECT	100uF	20.00% 10V	
C708	1-104-665-11	ELECT	100uF	20.00% 10V	
C709	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C710	1-104-665-11	ELECT	100uF	20.00% 10V	
C711	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C712	1-163-019-00	CERAMIC CHIP	0.0068uF	10% 50V	
C713	1-104-760-11	CERAMIC CHIP	0.047uF	10.00% 50V	
C714	1-104-329-11	CERAMIC CHIP	0.1uF	10.00% 50V	
C715	1-163-001-11	CERAMIC CHIP	220PF	10% 50V	
C716	1-163-001-11	CERAMIC CHIP	220PF	10% 50V	
C717	1-104-665-11	ELECT	100uF	20.00% 10V	
C718	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C720	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C721	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C722	1-126-959-11	ELECT	0.47uF	20.00% 50V	
C723	1-163-259-91	CERAMIC CHIP	220PF	5.00% 50V	
C726	1-163-011-11	CERAMIC CHIP	0.0015uF	10% 50V	
C727	1-104-760-11	CERAMIC CHIP	0.047uF	10.00% 50V	
C728	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C729	1-104-665-11	ELECT	100uF	20.00% 10V	
C730	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C731	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C732	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C733	1-163-235-11	CERAMIC CHIP	22PF	5.00% 50V	
C734	1-163-235-11	CERAMIC CHIP	22PF	5.00% 50V	
C735	1-126-963-11	ELECT	4.7uF	20.00% 50V	
C736	1-126-963-11	ELECT	4.7uF	20.00% 50V	
C737	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C738	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C739	1-163-007-11	CERAMIC CHIP	680PF	10% 50V	
C740	1-163-121-00	CERAMIC CHIP	150PF	5% 50V	
C743	1-163-121-00	CERAMIC CHIP	150PF	5% 50V	
C744	1-163-007-11	CERAMIC CHIP	680PF	10% 50V	
C745	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C746	1-126-925-11	ELECT	470uF	20.00% 10V	
C747	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C757	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V	
C758	1-163-005-11	CERAMIC CHIP	470PF	10% 50V	
C759	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C760	1-163-181-00	CERAMIC CHIP	100PF	5.00% 50V	
C761	1-104-665-11	ELECT	100uF	20.00% 10V	
C762	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C763	1-163-181-00	CERAMIC CHIP	100PF	5.00% 50V	
C764	1-163-181-00	CERAMIC CHIP	100PF	5.00% 50V	
C765	1-163-001-11	CERAMIC CHIP	220PF	10% 50V	
C766	1-163-181-00	CERAMIC CHIP	100PF	5.00% 50V	
C768	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C770	1-163-181-00	CERAMIC CHIP	100PF	5.00% 50V	
C773	1-163-181-00	CERAMIC CHIP	100PF	5.00% 50V	
C780	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C781	1-104-665-11	ELECT	100uF	20.00% 10V	
C782	1-107-725-11	CERAMIC CHIP	0.1uF	10.00% 16V	
		< CONNECTOR >			
* CNP701	1-779-466-11	CONNECTOR, FFC/FPC 16P			
CNP702	1-784-739-11	CONNECTOR, FFC 17P			
		< IC >			
IC701	8-752-083-15	IC CXA2550M			
IC702	8-752-386-85	IC CXD2587Q			
IC703	8-759-549-28	IC BA5974FP-E2			
		< JUMPER >			
JC701	1-216-296-91	SHORT	0		
JC702	1-216-296-91	SHORT	0		
JC703	1-216-296-91	SHORT	0		
JC704	1-216-296-91	SHORT	0		
JC705	1-216-296-91	SHORT	0		

Ref. No.	Part No.	Description		Remarks
JC706	1-216-296-91	SHORT	0	
JC707	1-216-296-91	SHORT	0	
JC708	1-216-296-91	SHORT	0	
JC709	1-216-296-91	SHORT	0	
JC710	1-216-296-91	SHORT	0	
JC711	1-216-296-91	SHORT	0	
JC712	1-216-296-91	SHORT	0	
JC713	1-216-295-91	SHORT	0	
JC714	1-216-296-91	SHORT	0	
JC715	1-216-296-91	SHORT	0	
JC716	1-216-296-91	SHORT	0	
JC717	1-216-296-91	SHORT	0	
JC718	1-216-296-91	SHORT	0	
JC719	1-216-296-91	SHORT	0	
JC720	1-216-296-91	SHORT	0	
JC721	1-216-296-91	SHORT	0	
JC722	1-216-296-91	SHORT	0	
JC723	1-216-296-91	SHORT	0	
JC724	1-216-296-91	SHORT	0	
JC725	1-216-296-91	SHORT	0	
JC726	1-216-296-91	SHORT	0	
JC727	1-216-296-91	SHORT	0	
JC728	1-216-296-91	SHORT	0	
JC729	1-216-296-91	SHORT	0	
JC730	1-216-296-91	SHORT	0	
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JC744	1-216-296-91	SHORT	0	
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JC748	1-216-296-91	SHORT	0	
JC750	1-216-295-91	SHORT	0	
JC751	1-216-296-91	SHORT	0	
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JC758	1-216-296-91	SHORT	0	
JC759	1-216-296-91	SHORT	0	
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JC761	1-216-296-91	SHORT	0	
JC762	1-216-296-91	SHORT	0	
JC763	1-216-296-91	SHORT	0	
JC764	1-216-295-91	SHORT	0	
JC765	1-216-295-91	SHORT	0	
JC766	1-216-296-91	SHORT	0	
JC767	1-216-296-91	SHORT	0	
JC768	1-216-296-91	SHORT	0	
JC769	1-216-296-91	SHORT	0	
JC770	1-216-296-91	SHORT	0	
JC771	1-216-296-91	SHORT	0	
JC772	1-216-295-91	SHORT	0	
JC773	1-216-296-91	SHORT	0	
JC774	1-216-296-91	SHORT	0	
JC775	1-216-295-91	SHORT	0	
JC776	1-216-295-91	SHORT	0	
JC777	1-216-295-91	SHORT	0	
JC778	1-216-295-91	SHORT	0	
		< COIL >		
L701	1-216-296-91	SHORT	0	
L702	1-216-296-91	SHORT	0	
L703	1-216-295-91	SHORT	0	
L704	1-216-295-91	SHORT	0	
L705	1-216-296-91	SHORT	0	
L706	1-216-296-91	SHORT	0	
L707	1-216-296-91	SHORT	0	
L708	1-216-296-91	SHORT	0	
L709	1-216-296-91	SHORT	0	
L710	1-216-296-91	SHORT	0	
L711	1-216-296-91	SHORT	0	
		< TRANSISTOR >		
Q701	8-729-903-46	TRANSISTOR	2SB1132-P	
Q702	8-729-900-53	TRANSISTOR	DTC114EK	
		< RESISTOR >		
R701	1-216-254-00	RES-CHIP	220K 5%	1/8W
R702	1-216-254-00	RES-CHIP	220K 5%	1/8W
R703	1-216-061-00	METAL CHIP	3.3K 5%	1/10W
R704	1-216-059-00	METAL CHIP	2.7K 5%	1/10W
R705	1-216-089-91	RES-CHIP	47K 5%	1/10W
R708	1-216-001-00	METAL CHIP	10 5%	1/10W
R709	1-216-234-00	RES-CHIP	33K 5%	1/8W
R712	1-216-222-00	RES-CHIP	10K 5%	1/8W
R713	1-216-085-00	METAL CHIP	33K 5%	1/10W
R714	1-216-099-00	METAL CHIP	120K 5%	1/10W
R715	1-216-085-00	METAL CHIP	33K 5%	1/10W
R716	1-216-085-00	METAL CHIP	33K 5%	1/10W
R717	1-216-073-00	METAL CHIP	10K 5%	1/10W
R718	1-216-097-91	RES-CHIP	100K 5%	1/10W
R719	1-216-270-00	RES-CHIP	1M 5%	1/8W
R720	1-216-073-00	METAL CHIP	10K 5%	1/10W
R721	1-216-061-00	METAL CHIP	3.3K 5%	1/10W
R722	1-216-061-00	METAL CHIP	3.3K 5%	1/10W
R723	1-216-075-00	METAL CHIP	12K 5%	1/10W
R724	1-216-075-00	METAL CHIP	12K 5%	1/10W
R725	1-216-075-00	METAL CHIP	12K 5%	1/10W
R726	1-216-075-00	METAL CHIP	12K 5%	1/10W
R727	1-216-075-00	METAL CHIP	12K 5%	1/10W
R728	1-216-075-00	METAL CHIP	12K 5%	1/10W
R730	1-216-065-91	RES-CHIP	4.7K 5%	1/10W
R731	1-216-238-91	RES-CHIP	47K 5%	1/8W
R741	1-216-037-00	METAL CHIP	330 5%	1/10W
R759	1-216-097-91	RES-CHIP	100K 5%	1/10W
R760	1-216-246-00	RES-CHIP	100K 5%	1/8W
R761	1-216-097-91	RES-CHIP	100K 5%	1/10W

Ref. No.	Part No.	Description			Remarks
R762	1-216-246-00	RES-CHIP	100K	5%	1/8W
R774	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R775	1-216-049-91	RES-CHIP	1K	5%	1/10W
R776	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R777	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R779	1-216-049-91	RES-CHIP	1K	5%	1/10W
R780	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R781	1-216-049-91	RES-CHIP	1K	5%	1/10W
R782	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R783	1-216-089-91	RES-CHIP	47K	5%	1/10W
R785	1-216-222-00	RES-CHIP	10K	5%	1/8W
R786	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R787	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R788	1-216-049-91	RES-CHIP	1K	5%	1/10W
R790	1-216-049-91	RES-CHIP	1K	5%	1/10W
R791	1-216-246-00	RES-CHIP	100K	5%	1/8W
R799	1-216-089-91	RES-CHIP	47K	5%	1/10W
		< SWITCH >			
S702	1-762-812-11	SWITCH, LEAF (LIMIT)			
		< VIBRATOR >			
X701	1-577-253-11	VIBRATOR, CERAMIC 16.934MHz			
**********					
* A-3323-461-A		CONTROL-1 BOARD, COMPLETE (G30:US,E92/G50:US,CND,E92,MX)			
		**********			
* A-3323-514-A		CONTROL-1 BOARD, COMPLETE (G30:E4/G50:E4)			
		**********			
		< CONNECTOR >			
* CNP601	1-770-540-31	CONNECTOR, FFC 6P			
		< DIODE>			
D601	8-719-080-07	LED SLI-342URC3FST (POWER DRIVE WOOFER)			
D603	8-719-080-07	LED SLI-342URC3FST (POWER DRIVE WOOFER)			
D604	8-719-080-07	LED SLI-342URC3FST (POWER DRIVE WOOFER)			
		< TRANSISTOR >			
Q601	8-729-029-72	TRANSISTOR	DTC114YSA		
		< RESISTOR >			
R601	1-249-425-11	CARBON	4.7K	5%	1/4W F
R602	1-247-843-11	CARBON	3.3K	5%	1/4W
R603	1-247-864-11	CARBON	24K	5%	1/4W
R604	1-249-415-11	CARBON	680	5%	1/4W F
R605	1-249-416-11	CARBON	820	5%	1/4W F
R606	1-249-418-11	CARBON	1.2K	5%	1/4W F
R607	1-249-420-11	CARBON	1.8K	5%	1/4W F
R608	1-247-843-11	CARBON	3.3K	5%	1/4W
R609	1-249-427-11	CARBON	6.8K	5%	1/4W F
R610	1-249-415-11	CARBON	680	5%	1/4W F
R611	1-249-416-11	CARBON	820	5%	1/4W F
R612	1-249-418-11	CARBON	1.2K	5%	1/4W F
R613	1-249-419-11	CARBON	1.5K	5%	1/4W F
R614	1-247-821-91	CARBON	390	5%	1/4W
R615	1-247-815-91	CARBON	220	5%	1/4W

Ref. No.	Part No.	Description			Remarks
		< SWITCH >			
S601	1-762-798-11	SWITCH, KEYBOARD (MEGA BASS)			
S602	1-762-798-11	SWITCH, KEYBOARD (SOUND)			
S603	1-762-798-11	SWITCH, KEYBOARD (PLAY/PAUSE)			
S604	1-762-798-11	SWITCH, KEYBOARD (STOP)			
S605	1-762-798-11	SWITCH, KEYBOARD (AMS-)			
S606	1-762-798-11	SWITCH, KEYBOARD (AMS+)			
S607	1-762-798-11	SWITCH, KEYBOARD (MODE)			
S608	1-762-798-11	SWITCH, KEYBOARD (LINE)			
S609	1-762-798-11	SWITCH, KEYBOARD (BAND)			
S610	1-762-798-11	SWITCH, KEYBOARD (PRESET+)			
S611	1-762-798-11	SWITCH, KEYBOARD (PRESET-)			
**********					
*	1-676-471-11	CONTROL-2 BOARD			
		**********			
		< RESISTOR >			
R621	1-249-415-11	CARBON	680	5%	1/4W F
		< SWITCH >			
S621	1-762-798-11	SWITCH, KEYBOARD (POWER)			
S622	1-762-798-11	SWITCH, KEYBOARD (SLEEP)			
S623	1-762-798-11	SWITCH, KEYBOARD (DISP/ENT)			
**********					
*	1-676-472-11	CONTROL-3 BOARD			
		**********			
		< RESISTOR >			
R631	1-249-418-11	CARBON	1.2K	5%	1/4W F
		< SWITCH >			
S631	1-762-798-11	SWITCH, KEYBOARD (VOL +)			
S632	1-762-798-11	SWITCH, KEYBOARD (VOL –)			
**********					
*	1-676-476-11	HEAD PHONE BOARD			
		**********			
		< CONNECTOR >			
* CNP391	1-564-724-11	PIN, CONNECTOR (SMALL TYPE) 8P			
* CNP392	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
* CNP393	1-564-706-31	PIN, CONNECTOR (SMALL TYPE) 4P			
		< JACK >			
J391	1-794-016-11	JACK, HEADPHONE (HEADPHONES)			
		< RESISTOR >			
R191	1-247-807-31	CARBON	100	5%	1/4W
R291	1-247-807-31	CARBON	100	5%	1/4W
**********					

LCD **LINE IN** **MAIN**

Ref. No.	Part No.	Description			Remarks
*	1-676-525-11	LCD BOARD			
		**********			
*	3-041-989-01	HOLDER (LCD)			
		< CAPACITOR >			
C651	1-161-494-00	CERAMIC	0.022uF	25V (G50)	
		< CONNECTOR >			
* CNP651	1-784-748-11	CONNECTOR, FFC 26P (G50)			
CNP651	1-784-746-11	CONNECTOR, FFC 24P (G30)			
		< DIODE >			
D651	8-719-080-07	LED SLI342URC3FST (OPR/BATT)			
		< IC >			
IC651	8-759-459-85	IC NJL63H400A (G50)			
		< LIQUID CRYSTAL DISPLAY >			
LCD651	1-803-872-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< RESISTOR >			
R651	1-249-417-11	CARBON	1K	5% 1/4W	F
R652	1-247-815-11	CARBON	220	5% 1/4W	
R653	1-249-437-11	CARBON	47K	5% 1/4W	(G50)
**********					
*	1-677-252-11	LINE IN BOARD			
		**********			
		< JACK >			
J301	1-566-822-21	JACK (LINE IN)			
		< COIL >			
L301	1-414-142-11	INDUCTOR	1uH		
		< CABLE >			
* KH351	1-565-384-11	HOLDER, CABLE 3P			
**********					
*	A-3322-472-A	MAIN BOARD, COMPLETE (G30:US,E92)			
		**********			
*	A-3322-622-A	MAIN BOARD, COMPLETE (G30:E4)			
		**********			
*	A-3322-477-A	MAIN BOARD, COMPLETE			(G50:US,CND,E92,MX)
		**********			
*	A-3322-619-A	MAIN BOARD, COMPLETE (G50:E4)			
		**********			
	3-048-359-01	HOLDER(IC, B)			
	3-045-003-01	HOLDER(IC)			
	4-352-844-01	PIN,LEAD, COATING			
	7-685-647-79	SCREW+BVTP	3X10 TYPE2 N-S		
	3-041-990-01	HEAT SINK			
		< CAPACITOR >			
C121	1-126-960-11	ELECT	1uF	20.00% 50V	
C122	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C123	1-162-282-31	CERAMIC	100PF	10% 50V	
C124	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C125	1-126-963-11	ELECT	4.7uF	20.00% 50V	

Ref. No.	Part No.	Description			Remarks
C126	1-127-869-21	CERAMIC	2700PF	10% 50V	
C127	1-127-888-21	CERAMIC	0.1uF	10% 50V	
C128	1-127-888-21	CERAMIC	0.1uF	10% 50V	
C129	1-126-960-11	ELECT	1uF	20.00% 50V	
C130	1-126-961-11	ELECT	2.2uF	20.00% 50V	
C131	1-104-664-11	ELECT	47uF	20.00% 10V	
C132	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C133	1-104-664-11	ELECT	47uF	20.00% 10V	
C134	1-136-165-00	MYLAR	0.1uF	5.00% 50V	
C135	1-126-926-11	ELECT	1000uF	20.00% 10V	
C136	1-127-872-21	CERAMIC	4700PF	10% 50V	
C137	1-126-961-11	ELECT	2.2uF	20.00% 50V	
C138	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C221	1-126-960-11	ELECT	1uF	20.00% 50V	
C222	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C223	1-162-282-31	CERAMIC	100PF	10% 50V	
C224	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C225	1-126-963-11	ELECT	4.7uF	20.00% 50V	
C226	1-127-869-21	CERAMIC	2700PF	10% 50V	
C227	1-127-888-21	CERAMIC	0.1uF	10% 50V	
C228	1-127-888-21	CERAMIC	0.1uF	10% 50V	
C229	1-126-960-11	ELECT	1uF	20.00% 50V	
C230	1-126-961-11	ELECT	2.2uF	20.00% 50V	
C231	1-104-664-11	ELECT	47uF	20.00% 10V	
C232	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C233	1-104-664-11	ELECT	47uF	20.00% 10V	
C234	1-136-165-00	MYLAR	0.1uF	5.00% 50V	
C235	1-126-926-11	ELECT	1000uF	20.00% 10V	
C236	1-127-872-21	CERAMIC	4700PF	10% 50V	
C237	1-126-961-11	ELECT	2.2uF	20.00% 50V	
C238	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C321	1-162-282-31	CERAMIC	100PF	10% 50V	
C322	1-162-282-31	CERAMIC	100PF	10% 50V	
C324	1-128-551-11	ELECT	22uF	20.00% 25V	
C325	1-126-964-11	ELECT	10uF	20.00% 50V	
C328	1-127-882-21	CERAMIC	0.033uF	10% 50V	
C329	1-127-886-21	CERAMIC	0.068uF	10% 50V	
C330	1-126-960-11	ELECT	1uF	20.00% 50V	
C331	1-126-964-11	ELECT	10uF	20.00% 50V	
C333	1-104-665-11	ELECT	100uF	20.00% 10V	
C334	1-126-963-11	ELECT	4.7uF	20.00% 50V	
C336	1-128-551-11	ELECT	22uF	20.00% 25V	
C338	1-104-665-11	ELECT	100uF	20.00% 10V	
C339	1-127-888-21	CERAMIC	0.1uF	10% 50V	
C341	1-104-665-11	ELECT	100uF	20.00% 10V	
C342	1-126-934-11	ELECT	220uF	20.00% 10V	
C343	1-104-665-11	ELECT	100uF	20.00% 10V	
C344	1-104-665-11	ELECT	100uF	20.00% 10V	
C345	1-136-165-00	MYLAR	0.1uF	5.00% 50V	
C346	1-136-165-00	MYLAR	0.1uF	5.00% 50V	
C347	1-128-548-11	ELECT	4700uF	20.00% 25V	
C348	1-127-880-21	CERAMIC	0.022uF	10% 50V	
C349	1-104-666-11	ELECT	220uF	20.00% 25V	
C352	1-128-551-11	ELECT	22uF	20.00% 25V	
C502	1-162-306-11	CERAMIC	0.01uF	20.00% 16V	
C503	1-126-960-11	ELECT	1uF	20.00% 50V	
C504	1-126-934-11	ELECT	220uF	20.00% 10V	
C505	1-162-306-11	CERAMIC	0.01uF	20.00% 16V	
C506	1-162-201-31	CERAMIC	12PF	5% 50V	
C507	1-162-201-31	CERAMIC	12PF	5% 50V	

Ref. No.	Part No.	Description				Remarks
C513	1-128-802-21	CERAMIC	27PF	5%	50V	
C514	1-128-802-21	CERAMIC	27PF	5%	50V	
C516	1-126-961-11	ELECT	2.2uF	20.00%	50V	
C517	1-126-963-11	ELECT	4.7uF	20.00%	50V	
C518	1-126-960-11	ELECT	1uF	20.00%	50V	
C519	1-126-964-11	ELECT	10uF	20.00%	50V	(G50)
C520	1-126-960-11	ELECT	1uF	20.00%	50V	
C521	1-162-306-11	CERAMIC	0.01uF	20.00%	16V	
C522	1-126-960-11	ELECT	1uF	20.00%	50V	
C523	1-162-306-11	CERAMIC	0.01uF	20.00%	16V	
C524	1-162-306-11	CERAMIC	0.01uF	20.00%	16V	
C525	1-162-282-31	CERAMIC	100PF	10%	50V	
C526	1-162-282-31	CERAMIC	100PF	10%	50V	
C529	1-104-664-11	ELECT	47uF	20.00%	10V	(G50)
C560	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C951	1-161-494-00	CERAMIC	0.022uF	25V		
C952	1-161-494-00	CERAMIC	0.022uF	25V		
C953	1-126-934-11	ELECT	220uF	20.00%	10V	
C955	1-104-665-11	ELECT	100uF	20.00%	10V	
C956	1-161-494-00	CERAMIC	0.022uF	25V		
C957	1-161-494-00	CERAMIC	0.022uF	25V		
C958	1-161-494-00	CERAMIC	0.022uF	25V		
C959	1-104-665-11	ELECT	100uF	20.00%	10V	
		< CONNECTOR >				
* CNP322	1-580-158-11	PIN, CONNECTOR (PC BOARD) 6P				
* CNP324	1-580-155-11	PIN, CONNECTOR (PC BOARD) 3P				
CNP501	1-784-767-11	CONNECTOR, FFC 6P				
CNP502	1-784-778-11	CONNECTOR, FFC 17P				
CNP505	1-784-733-11	CONNECTOR, FFC 11P				
* CNP507	1-784-785-11	CONNECTOR, FFC 24P (G30)				
* CNP507	1-784-787-11	CONNECTOR, FFC 26P (G50)				
		< DIODE >				
D321	8-719-991-33	DIODE 1SS133T-77				
D322	8-719-991-33	DIODE 1SS133T-77				
D325	8-719-991-33	DIODE 1SS133T-77				
D501	8-719-991-33	DIODE 1SS133T-77				
D502	8-719-991-33	DIODE 1SS133T-77				
D503	8-719-991-33	DIODE 1SS133T-77(G30:E4/G50:E4)				
D504	8-719-991-33	DIODE 1SS133T-77				
D505	8-719-991-33	DIODE 1SS133T-77				
D506	8-719-109-89	DIODE RD5.6ESB2 (G50)				
D507	8-719-991-33	DIODE 1SS133T-77 (G50)				
D508	8-719-991-33	DIODE 1SS133T-77 (G50)				
D509	8-719-991-33	DIODE 1SS133T-77				
D510	8-719-991-33	DIODE 1SS133T-77				
D511	8-719-991-33	DIODE 1SS133T-77				
D512	8-719-991-33	DIODE ISS133T-77				
D951	8-719-991-33	DIODE 1SS133T-77				
D952	8-719-991-33	DIODE 1SS133T-77				
D953	8-719-033-53	DIODE RD6.8SB2-T1				
D954	8-719-110-17	DIODE RD10ESB2				
D955	8-719-991-33	DIODE 1SS133T-77				
D956	8-719-991-33	DIODE 1SS133T-77				
D957	8-719-109-72	DIODE RD3.9ES-B2				
D958	8-719-991-33	DIODE 1SS133T-77				

Ref. No.	Part No.	Description	Remarks
		< IC >	
IC321	8-759-669-03	IC LC75342	
IC322	8-759-634-51	IC M5218AP	
IC323	8-759-426-51	IC BA5417	
IC324	8-759-426-51	IC BA5417	
IC501	8-752-914-06	IC CXP83620-019Q	
IC502	8-759-658-46	IC S81233SGY-Z	
IC503	8-759-645-87	IC PST9128-T	
IC504	8-759-641-21	IC BR24C01A-W	
		< HOLDER >	
* KH325	1-573-287-11	HOLDER, CABLE 2P	
* KH503	1-565-386-11	HOLDER, CABLE 5P	
		< TRANSISTOR >	
Q122	8-729-036-95	TRANSISTOR KTC3198GR-AT	
Q222	8-729-036-95	TRANSISTOR KTC3198GR-AT	
Q321	8-729-036-95	TRANSISTOR KTC3198GR-AT	
Q322	8-729-029-72	TRANSISTOR DTC114YSA	
Q323	8-729-195-23	TRANSISTOR 2SA952	
Q324	8-729-029-72	TRANSISTOR DTC114YSA	
Q326	8-729-209-15	TRANSISTOR 2SC2001	
Q327	8-729-036-95	TRANSISTOR KTC3198GR-AT	
Q328	8-729-029-94	TRANSISTOR DTC143TSA	
Q329	8-729-029-94	TRANSISTOR DTC143TSA	
Q330	8-729-029-49	TRANSISTOR DTA143TSA	
Q501	8-729-029-26	TRANSISTOR DTA114YSA	
Q503	8-729-029-26	TRANSISTOR DTA114YSA	
Q504	8-729-029-72	TRANSISTOR DTC114YSA	
Q505	8-729-029-72	TRANSISTOR DTC114YSA	
Q506	8-729-029-72	TRANSISTOR DTC114YSA	
Q507	8-729-029-72	TRANSISTOR DTC114YSA	
Q509	8-729-036-95	TRANSISTOR KTC3198GR-AT (G50)	
Q510	8-729-029-72	TRANSISTOR DTC114YSA	
Q511	8-729-029-72	TRANSISTOR DTC114YSA	
Q512	8-729-195-23	TRANSISTOR 2SA952	
Q513	8-729-029-72	TRANSISTOR DTC114YSA	
Q514	8-729-029-26	TRANSISTOR DTA114YSA	
Q515	8-729-029-72	TRANSISTOR DTC114YSA	
Q516	8-729-029-26	TRANSISTOR DTA114YSA	
Q517	8-729-029-26	TRANSISTOR DTA114YSA	
Q518	8-729-029-72	TRANSISTOR DTC114YSA	
Q519	8-729-029-26	TRANSISTOR DTA114YSA	
Q520	8-729-029-72	TRANSISTOR DTC114YSA (G30:E4/G50:E4)	
Q951	8-729-029-82	TRANSISTOR DTC123JSA	
Q952	8-729-195-23	TRANSISTOR 2SA952	
Q953	8-729-029-92	TRANSISTOR DTC143ESA-TP	
Q954	8-729-021-82	TRANSISTOR 2SD2396K (G30:US,E92,G50)	
Q955	8-729-209-15	TRANSISTOR 2SD2012	
Q956	8-729-011-92	TRANSISTOR 2SC2001TP-K1K2	
		< RESISTOR >	

R121	1-249-417-11	CARBON	1K	5%	1/4W	F
R122	1-249-434-11	CARBON	27K	5%	1/4W	
R123	1-249-441-11	CARBON	100K	5%	1/4W	
R124	1-249-417-11	CARBON	1K	5%	1/4W	F
R125	1-247-844-11	CARBON	3.6K	5%	1/4W	

Ref. No.	Part No.	Description			Remarks
R126	1-247-863-91	CARBON	22K	5%	1/4W
R127	1-249-429-11	CARBON	10K	5%	1/4W
R128	1-247-895-91	CARBON	470K	5%	1/4W
R129	1-249-413-11	CARBON	470	5%	1/4W F
R130	1-249-387-11	CARBON	3.3	5%	1/4W F
R131	1-247-807-31	CARBON	100	5%	1/4W
R132	1-249-427-11	CARBON	6.8K	5%	1/4W F
R133	1-249-425-11	CARBON	4.7K	5%	1/4W F
R221	1-249-417-11	CARBON	1K	5%	1/4W F
R222	1-249-434-11	CARBON	27K	5%	1/4W
R223	1-249-441-11	CARBON	100K	5%	1/4W
R224	1-249-417-11	CARBON	1K	5%	1/4W F
R225	1-247-844-11	CARBON	3.6K	5%	1/4W
R226	1-247-863-91	CARBON	22K	5%	1/4W
R227	1-249-429-11	CARBON	10K	5%	1/4W
R228	1-247-895-91	CARBON	470K	5%	1/4W
R229	1-249-413-11	CARBON	470	5%	1/4W F
R230	1-249-387-11	CARBON	3.3	5%	1/4W F
R231	1-247-807-31	CARBON	100	5%	1/4W
R232	1-249-427-11	CARBON	6.8K	5%	1/4W F
R233	1-249-425-11	CARBON	4.7K	5%	1/4W F
R323	1-249-421-11	CARBON	2.2K	5%	1/4W F
R324	1-249-441-11	CARBON	100K	5%	1/4W
R325	1-249-436-11	CARBON	39K	5%	1/4W
R326	1-249-435-11	CARBON	33K	5%	1/4W
R327	1-249-435-11	CARBON	33K	5%	1/4W
R328	1-259-880-11	CARBON	2.2M	5%	1/4W
R329	1-247-807-31	CARBON	100	5%	1/4W
R331	1-249-429-11	CARBON	10K	5%	1/4W
R332	1-249-421-11	CARBON	2.2K	5%	1/4W F
R333	1-249-417-11	CARBON	1K	5%	1/4W F
R334	1-249-425-11	CARBON	4.7K	5%	1/4W F
R336	1-249-412-11	CARBON	390	5%	1/4W F
R339	1-249-387-11	CARBON	3.3	5%	1/4W F
R340	1-249-417-11	CARBON	1K	5%	1/4W F
R341	1-249-387-11	CARBON	3.3	5%	1/4W F
R342	1-249-437-11	CARBON	47K	5%	1/4W
R343	1-249-441-11	CARBON	100K	5%	1/4W
R344	1-249-417-11	CARBON	1K	5%	1/4W F
R345	1-249-417-11	CARBON	1K	5%	1/4W F
R346	1-249-417-11	CARBON	1K	5%	1/4W F
R347	1-249-417-11	CARBON	1K	5%	1/4W F
R348	1-249-417-11	CARBON	1K	5%	1/4W F
R350	1-247-807-31	CARBON	100	5%	1/4W
R351	1-249-429-11	CARBON	10K	5%	1/4W
R352	1-249-417-11	CARBON	1K	5%	1/4W F
R353	1-249-413-11	CARBON	470	5%	1/4W F
R354	1-247-791-91	CARBON	22	5%	1/4W
R502	1-249-417-11	CARBON	1K	5%	1/4W F (G50)
R506	1-249-417-11	CARBON	1K	5%	1/4W F
R508	1-249-417-11	CARBON	1K	5%	1/4W F
R513	1-249-417-11	CARBON	1K	5%	1/4W F
R514	1-249-417-11	CARBON	1K	5%	1/4W F
R515	1-249-417-11	CARBON	1K	5%	1/4W F
R516	1-249-417-11	CARBON	1K	5%	1/4W F

Ref. No.	Part No.	Description			Remarks
R517	1-249-417-11	CARBON	1K	5%	1/4W F
R521	1-249-417-11	CARBON	1K	5%	1/4W F
R522	1-249-417-11	CARBON	1K	5%	1/4W F
R523	1-249-429-11	CARBON	10K	5%	1/4W
R525	1-249-417-11	CARBON	1K	5%	1/4W F
R526	1-249-417-11	CARBON	1K	5%	1/4W F
R527	1-249-417-11	CARBON	1K	5%	1/4W F
R529	1-249-417-11	CARBON	1K	5%	1/4W F
R534	1-247-843-11	CARBON	3.3K	5%	1/4W
R535	1-249-429-11	CARBON	10K	5%	1/4W
R536	1-249-429-11	CARBON	10K	5%	1/4W
R537	1-249-429-11	CARBON	10K	5%	1/4W
R540	1-249-425-11	CARBON	4.7K	5%	1/4W F
R541	1-249-441-11	CARBON	100K	5%	1/4W
R542	1-249-417-11	CARBON	1K	5%	1/4W F
R545	1-249-417-11	CARBON	1K	5%	1/4W F
R546	1-249-417-11	CARBON	1K	5%	1/4W F
R563	1-249-429-11	CARBON	10K	5%	1/4W
R564	1-249-429-11	CARBON	10K	5%	1/4W
R569	1-249-421-11	CARBON	2.2K	5%	1/4W F
R576	1-249-421-11	CARBON	2.2K	5%	1/4W F
R581	1-249-425-11	CARBON	4.7K	5%	1/4W F
R582	1-249-429-11	CARBON	10K	5%	1/4W
R583	1-249-429-11	CARBON	10K	5%	1/4W
R584	1-249-425-11	CARBON	4.7K	5%	1/4W F
R585	1-249-425-11	CARBON	4.7K	5%	1/4W F
R586	1-249-425-11	CARBON	4.7K	5%	1/4W F
R587	1-249-437-11	CARBON	47K	5%	1/4W
R589	1-249-429-11	CARBON	10K	5%	1/4W
R590	1-249-429-11	CARBON	10K	5%	1/4W
R591	1-249-429-11	CARBON	10K	5%	1/4W
R592	1-247-843-11	CARBON	3.3K	5%	1/4W
R593	1-247-895-91	CARBON	470K	5%	1/4W
R594	1-249-428-11	CARBON	8.2K	5%	1/4W F (G30:US,E92/G50:US,CND,E92,MX)
R594	1-249-431-11	CARBON	15K	5%	1/4W (G30:E4/G50:E4)
R595	1-249-417-11	CARBON	1K	5%	1/4W F (G50)
R596	1-247-807-31	CARBON	100	5%	1/4W (G50)
R597	1-249-417-11	CARBON	1K	5%	1/4W F
R598	1-249-437-11	CARBON	47K	5%	1/4W
R599	1-249-425-11	CARBON	4.7K	5%	1/4W F
R951	1-249-437-11	CARBON	47K	5%	1/4W
R952	1-249-417-11	CARBON	1K	5%	1/4W F
R954	1-249-413-11	CARBON	470	5%	1/4W F
R955	1-247-807-31	CARBON	100	5%	1/4W
R956	1-249-413-11	CARBON	470	5%	1/4W F
R957	1-247-807-31	CARBON	100	5%	1/4W
R958	1-249-417-11	CARBON	1K	5%	1/4W F
R959	1-249-411-11	CARBON	330	5%	1/4W
R960	1-247-807-31	CARBON	100	5%	1/4W
R961	1-249-417-11	CARBON	1K	5%	1/4W F

< VIBRATOR >

X501	1-781-775-11	VIBRATOR, CERAMIC
X502	1-781-721-11	VIBRATOR, CRYSTAL

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Ref. No.	Part No.	Description			Remarks
*	1-676-475-11	POWER BOARD			
		**********			
	1-533-233-11	HOLDER,FUSE			
		< CAPACITOR >			
C901	1-127-880-31	CERAMIC	0.022uF	10%	50V
C902	1-127-880-31	CERAMIC	0.022uF	10%	50V
C903	1-127-880-31	CERAMIC	0.022uF	10%	50V
C904	1-127-880-31	CERAMIC	0.022uF	10%	50V
C909	1-126-943-11	ELECT	2200uF	20.00%	25V
		< JACK >			
⚠CNJ901	1-540-009-11	INLET, AC (G30:US/G50:US,CND)			
⚠CNJ901	1-526-838-11	INLET, AC 2P (G30:E4/G50:E4)			
⚠CNJ901	1-526-818-11	INLET, AC (G30:E92/G50:E92,MX)			
		< CONNECTOR >			
CNP902	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			
* CNP903	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P			
* CNP904	1-784-055-11	PIN, CONNECTOR (PWB) 5P (G30:E4/G50:E4)			
		< DIODE >			
D901	8-719-046-47	DIODE 1N5401TM			
D902	8-719-046-47	DIODE 1N5401TM			
D903	8-719-046-47	DIODE 1N5401TM			
D904	8-719-046-47	DIODE 1N5401TM			
		< FUSE >			
⚠F901	1-532-284-00	FUSE 0.63A/250V (G30:E4)			
⚠F902	1-576-193-11	FUSE 6.3A/125V (G30:US,E92/G50:US,CND,E92,MX)			
⚠F902	1-532-350-00	FUSE 4A/250V (G30:E4/G50:E4)			
		< TRANSFORMER >			
⚠T901	1-435-296-11	TRANSFORMER, POWER (G30:US,E92/G50:US,CND,E92,MX)			
⚠T901	1-435-298-11	TRANSFORMER, POWER(G30:E4/G50:E4)			
**********					
*	A-3322-448-A	PRE BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C102	1-104-664-11	ELECT	47uF	20.00%	10V
C103	1-162-587-11	CERAMIC CHIP	0.039uF	10%	25V
C104	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C105	1-163-243-11	CERAMIC CHIP	47PF	5.00%	50V
C106	1-126-960-11	ELECT	1uF	20.00%	50V
C201	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C202	1-104-664-11	ELECT	47uF	20.00%	10V
C203	1-162-587-11	CERAMIC CHIP	0.039uF	10%	25V
C204	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C205	1-163-243-11	CERAMIC CHIP	47PF	5.00%	50V
C206	1-126-960-11	ELECT	1uF	20.00%	50V
C301	1-104-665-11	ELECT	100uF	20.00%	10V
C302	1-104-665-11	ELECT	100uF	20.00%	10V
C303	1-104-665-11	ELECT	100uF	20.00%	10V

Ref. No.	Part No.	Description			Remarks
C304	1-104-664-11	ELECT	47uF	20.00%	10V
C305	1-137-431-11	MYLAR	560PF	5.00%	50V
C306	1-163-021-91	CERAMIC CHIP	0.01uF	10.00%	50V
C307	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
		< CONNECTOR >			
CNP301	1-568-830-11	CONNECTOR, FFC 11P			
		< IC >			
IC301	8-759-264-71	IC TA2068N			
		< TRANSISTOR >			
Q301	8-729-281-53	TRANSISTOR 2SC1815-GR			
		< RESISTOR >			
R101	1-216-077-00	RES-CHIP	15K	5%	1/10W
R102	1-216-023-00	METAL CHIP	82	5%	1/10W
R103	1-216-097-91	RES-CHIP	100K	5%	1/10W
R104	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R105	1-216-077-00	RES-CHIP	15K	5%	1/10W
R106	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R110	1-216-025-91	RES-CHIP	100	5%	1/10W
R111	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R201	1-216-077-00	RES-CHIP	15K	5%	1/10W
R202	1-216-023-00	METAL CHIP	82	5%	1/10W
R203	1-216-097-91	RES-CHIP	100K	5%	1/10W
R204	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R205	1-216-077-00	RES-CHIP	15K	5%	1/10W
R206	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R210	1-216-174-00	RES-CHIP	100	5%	1/8W
R211	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R301	1-216-121-91	RES-CHIP	1M	5%	1/10W
R302	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R303	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R304	1-216-198-91	RES-CHIP	1K	5%	1/8W
R305	1-216-180-00	RES-CHIP	180	5%	1/8W
R306	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R307	1-216-150-91	RES-CHIP	10	5%	1/8W
R308	1-216-081-00	METAL CHIP	22K	5%	1/10W
R309	1-216-166-00	RES-CHIP	47	5%	1/8W
		< SWITCH >			
S301	1-762-565-11	SWITCH, SLIDE (REC)			
		< TRANSFORMER >			
T301	1-416-041-11	TRANSFORMER, BIAS OSCILLATION			
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The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

TUNER

Ref. No.	Part No.	Description			Remarks
*	A-3322-456-A	TUNER BOARD, COMPLETE (G30:US,E92/G50:US,CND,E92,MX)			
		**********			
*	A-3322-558-A	TUNER BOARD, COMPLETE (G30:E4/G50:E4)			
		**********			
	7-685-647-79	SCREW+BVTP 3X10 TYPE2 N-S			
		< CAPACITOR >			
C4	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C8	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C9	1-163-098-00	CERAMIC CHIP	16PF	5% 50V	
C10	1-126-960-11	ELECT	1uF	20.00% 50V	
C11	1-163-077-00	CERAMIC CHIP	0.1uF	10% 25V	
C12	1-126-963-11	ELECT	4.7uF	20.00% 50V	
C14	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V (G30:US,E92/G50:US,CND,MX)	
C14	1-163-023-00	CERAMIC CHIP	0.015uF	5% 50V (G30:E4/G50:E4)	
C15	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V (G30:US,E92/G50:US,CND,MX)	
C15	1-163-023-00	CERAMIC CHIP	0.015uF	5% 50V (G30:E4/G50:E4)	
C16	1-126-960-11	ELECT	1uF	20.00% 50V	
C17	1-126-960-11	ELECT	1uF	20.00% 50V	
C18	1-126-934-11	ELECT	220uF	20.00% 10V	
C19	1-163-243-11	CERAMIC CHIP	47PF	5.00% 50V	
C20	1-115-339-11	CERAMIC CHIP	0.1uF	10.00% 50V	
C21	1-126-960-11	ELECT	1uF	20.00% 50V	
C22	1-115-339-11	CERAMIC CHIP	0.1uF	10.00% 50V	
C23	1-126-960-11	ELECT	1uF	20.00% 50V	
C24	1-163-003-11	CERAMIC CHIP	330PF	10% 50V	
C26	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V	
C27	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V	
C28	1-104-665-11	ELECT	100uF	20.00% 10V	
C30	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C31	1-163-237-11	CERAMIC CHIP	27PF	5.00% 50V	
C32	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C33	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C34	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C35	1-115-339-11	CERAMIC CHIP	0.1uF	10.00% 50V	
C41	1-115-339-11	CERAMIC CHIP	0.1uF	10.00% 50V	
C42	1-163-129-00	CERAMIC CHIP	330PF	5% 50V	
C44	1-163-021-11	CERAMIC CHIP	0.01uF	10.00% 50V	
C47	1-163-227-11	CERAMIC CHIP	10PF	0.50PF 50V	
C51	1-163-229-11	CERAMIC CHIP	12PF	5.00% 50V	
C52	1-163-098-00	CERAMIC CHIP	16PF	5% 50V	
C53	1-136-171-00	MYLAR	0.33uF	5.00% 50V	
C54	1-126-934-11	ELECT	220uF	20.00% 10V	
C55	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V	
C56	1-163-205-00	CERAMIC CHIP	0.001uF	5% 50V	
C57	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C58	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C59	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V	
C60	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C61	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V	
C62	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V	
C63	1-163-181-00	CERAMIC CHIP	100PF	5.00% 50V	
C64	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V	
C66	1-163-181-00	CERAMIC CHIP	100PF	5.00% 50V	
C68	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V	
C77	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C80	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C93	1-163-021-91	CERAMIC CHIP	0.01uF	10.00% 50V	
C95	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
		< FILTER >			
CF2	1-760-233-71	FILTER, CERAMIC			
CF4	1-781-749-11	FILTER, AM CERAMIC			
		< CONNECTOR >			
* CNP1	1-564-713-11	PIN, CONNECTOR (SMALL TYPE) 11P			
		< TRIMMER >			
CT1	1-141-227-00	CAP, TRIMMER	20PF		
CT3	1-141-304-21	CAP, TRIMMER	10PF		
		< DIODE >			
D1	8-719-078-48	DIODE KV1471ETR1-3			
D2	8-719-078-48	DIODE KV1471ETR1-3			
D3	8-719-050-69	DIODE KV1520N			
D10	8-719-988-61	DIODE 1SS355TE-17			
D11	8-719-988-61	DIODE 1SS355TE-17			
		< FERRITE BEAD >			
FB1	1-216-295-91	SHORT	0		
		< IC >			
IC1	8-759-662-67	IC TA2149N			
IC2	8-759-483-40	IC LC72137M-TLM			
		< JUMPER >			
JC8	1-216-296-91	SHORT	0		
JC9	1-216-296-91	SHORT	0		
JC10	1-216-296-91	SHORT	0		
JC14	1-216-296-91	SHORT	0		
JC15	1-216-296-91	SHORT	0		
JC16	1-216-296-91	SHORT	0		
JC18	1-216-295-91	SHORT	0		
JC19	1-216-296-91	SHORT	0		
JC20	1-216-296-91	SHORT	0		
JC21	1-216-295-91	SHORT	0		
JC23	1-216-296-91	SHORT	0		
JC24	1-216-295-91	SHORT	0		
JC25	1-216-296-91	SHORT	0 (G30:E4/G50:E4)		
JC27	1-216-296-91	SHORT	0		
JC28	1-216-296-91	SHORT	0		
JC29	1-216-296-91	SHORT	0		
JC30	1-216-296-91	SHORT	0		
JC31	1-216-296-91	SHORT	0		
JC33	1-216-296-91	SHORT	0		
JC38	1-216-296-91	SHORT	0		
JC39	1-216-296-91	SHORT	0		
JC40	1-216-296-91	SHORT	0		
JC41	1-216-296-91	SHORT	0		
JC42	1-216-295-91	SHORT	0		
JC43	1-216-296-91	SHORT	0		

Ref. No.	Part No.	Description			Remarks
JC44	1-216-295-91	SHORT	0		
		< COIL >			
L1	1-416-533-11	COIL, AIR-CORE			
L2	1-416-509-11	COIL, AIR-CORE			
L3	1-754-117-11	ANTENNA, FERRITE-ROD (MW)			
L4	1-411-234-21	COIL, AM OSC			
L11	1-414-142-11	INDUCTOR	1uH (G30:US,E92/G50:US,CND,E92,MX)		
L21	1-410-509-11	INDUCTOR	10uH		
		< RESISTOR >			
R1	1-216-037-00	METAL CHIP	330	5%	1/10W
R2	1-216-033-00	METAL CHIP	220	5%	1/10W
R3	1-216-073-00	METAL CHIP	10K	5%	1/10W
R4	1-216-073-00	METAL CHIP	10K	5%	1/10W
R5	1-216-295-91	SHORT	0		
R10	1-216-166-00	RES-CHIP	47	5%	1/8W
R11	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R13	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R24	1-216-033-00	METAL CHIP	220	5%	1/10W
R25	1-216-001-00	METAL CHIP	10	5%	1/10W
R30	1-216-077-91	RES-CHIP	15K	5%	1/10W
R31	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R32	1-216-097-91	RES-CHIP	100K	5%	1/10W
R40	1-216-105-91	RES-CHIP	220K	5%	1/10W
R41	1-216-073-00	METAL CHIP	10K	5%	1/10W
R50	1-216-198-91	RES-CHIP	1K	5%	1/8W
R51	1-216-073-00	METAL CHIP	10K	5%	1/10W
R53	1-216-075-00	METAL CHIP	12K	5%	1/10W
R54	1-216-043-91	RES-CHIP	560	5%	1/10W
R56	1-216-041-00	METAL CHIP	470	5%	1/10W
R58	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R59	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R60	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R61	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R63	1-216-222-00	RES-CHIP	10K	5%	1/8W
R65	1-216-073-00	METAL CHIP	10K	5%	1/10W
R91	1-216-198-91	RES-CHIP	1K	5%	1/8W
R92	1-216-198-91	RES-CHIP	1K	5%	1/8W
R93	1-216-296-91	SHORT	0		
R94	1-216-049-91	RES-CHIP	1K	5%	1/10W
		< TRANSFORMER >			
T1	1-435-333-11	TRANSFORMER, IF			
T2	1-419-465-11	COIL (DET)			
		< VIBRATOR >			
X1	1-781-592-11	VIBRATOR, CRYSTAL			
**********					
	1-676-474-11	VOL SEL BOARD (G30:E4/G50:E4)			
		**********			
		< SWITCH >			
⚠S1	1-552-921-00	SWITCH, POWER (VOLTAGE CHANGE)			
**********					

Ref. No.	Part No.	Description	Remarks
		MISCELLANEOUS	
		**********	
14	1-792-040-11	WIRE, PARALLEL (6 CORE)	
53	1-452-899-11	MAGNET	
58	1-501-883-21	ANTENNA, TELESCOPIC	
101	1-692-960-11	SWITCH, PUSH (1 KEY)	
122	1-792-241-11	WIRE, PARALLEL (17 CORE)	
130	1-792-209-11	WIRE, PARALLEL (16 CORE)	
131	1-792-240-11	WIRE, PARALLEL (11 CORE)	
132	1-792-041-11	WIRE, PARALLEL (26 CORE) (G50)	
132	1-792-097-11	WIRE, PARALLEL (24 CORE) (G30)	
⚠254	8-848-483-05	OPTICAL PICK-UP KSS-213C	
HE301	1-543-876-14	HEAD (ERASE)	
HRP301	1-500-668-11	HEAD, MAGNETIC (RECORD/PLAYBACK)	
LCD651	1-803-872-11	DISPLAY PANEL, LIQUID CRYSTAL	
S601	1-762-679-11	SWITCH, LEAF (MD POWER)	
S602	1-771-059-12	SWITCH, LEAF (PLAY)	
S801	1-692-960-11	SWITCH, PUSH (1 KEY)	
SP301	1-529-583-11	SPEAKER (10cm)	
SP302	1-529-583-11	SPEAKER (10cm)	
SP303	1-529-582-11	SPEAKER (8cm)	
**********			
		ACCESSORIES	
		**********	
⚠	1-557-287-11	CORD,POWER (G30:E92/G50:E92,MX)	
⚠	1-574-085-11	CORD,POWER (G50:CND)	
⚠	1-696-820-21	CORD,POWER (G30:E4/G50:E4)	
⚠	1-783-878-11	CORD,POWER (G30:US/G50:US)	
	3-043-357-11	MANUAL, INSTRUCTION (ENGLISH) (G30:US/G50:US,CND,MX)	
	3-043-357-21	MANUAL, INSTRUCTION (FRENCH) (G30:E92/G50:CND,E92)	
	3-043-357-31	MANUAL, INSTRUCTION (ENGLISH,SPANISH)(G30:E4/G50:E4)	
	3-043-357-41	MANUAL, INSTRUCTION (FRENCH,GERMAN)(G30:E4/G50:E4)	
	3-043-357-91	MANUAL, INSTRUCTION (SPANISH) (G30:E92/G50:E92,MX)	
	A-3258-027-A	REMOTE COMMANDER RMT-CG50A (G50)	
	3-027-153-01	LID, BATTERY CASE (G50)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-647-19	SCREW +BVTP 3X10 TYPE2 N-S	
#2	7-685-649-11	SCREW +BVTP 3X14	
#3	7-685-650-19	SCREW +BVTP 3X16	
#4	7-685-647-11	SCREW +BVTP 3X10	
#5	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#6	7-685-851-04	SCREW +BVTT 2X4 (S)	
#7	7-621-255-45	SCREW +P 2X6	
#9	7-685-783-09	SCREW +PTT 2X6 (S)	
#10	7-621-775-20	SCREW +B 2.6X5	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MEMO

CFD-G30/G50

SONY

US Model
Canadian Model
E Model

SERVICE MANUAL

Ver 1.1 2001. 09

SUPPLEMENT-1

File this supplement with the Service Manual.

Subject : Canadian model is added to the CFD-G30

Canadian model is added to the CFD-G30.
This supplement-1 describes only differences from the CFD-G30 US model.
Refer to the service manual for CFD-G30/G50 (9-927-676-□□) for other information.

• ACCESSORIES

Page	CFD-G30 US model		CFD-G30 Canadian model	
	Part No.	Description	Part No.	Description
63	⚠ 1-783-878-11	CORD, POWER (US)	⚠ 1-574-085-11	CORD, POWER (CND)
	———	———	3-043-357-21	MANUAL, INSTRUCTION (FRENCH)(CND, E92)

- Abbreviation
  E92 : 120 V AC area model
  CND : Canadian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

CFD-G30/G50

SONY

US Model
Canadian Model
E Model

SERVICE MANUAL

Ver 1.2 2002. 06

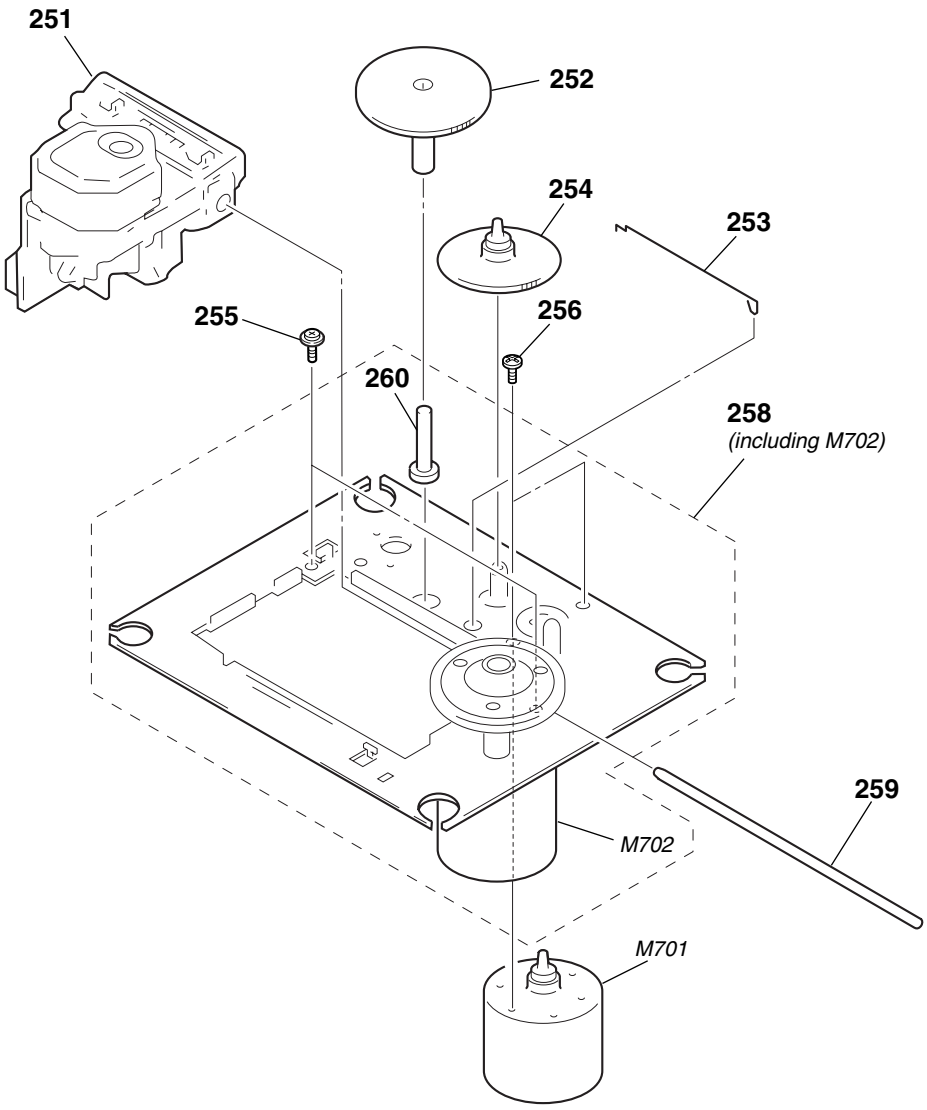
SUPPLEMENT-2

Subject : Change of CD mechanism type

(SPM-02027)

CD mechanism type changed into KSM-213RDP from KSM-213CDP after serial No.1569481.
Please check serial No. when you exchange the parts of CD mechanism.

CD Mechanism Section (KSM-213RDP)



Ref. No.	Part No.	Description	Remark
⚠ 251	8-820-161-02	OPTICAL PICK-UP KSS-213R	
* 252	2-169-065-01	GEAR (A)	
* 253	2-169-385-01	SPRING, SLED	
* 254	2-647-408-02	GEAR (B)	
255	2-169-388-01	TAPPING (M2), +PWB	
256	3-713-786-51	SCREW (M2 x 3)	
258	X-2162-707-1	CHASSIS ASSY (RDP)(RP), MOTOR (SPINDLE)	
259	2-626-908-01	SHAFT, SLED	
* 260	2-169-384-01	SHAFT (S), GEAR	
M701	X-2162-712-1	GEAR ASSY (R)(RP), MOTOR (SLED)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2000.02	New
1.1	2001.09	Canadian model is added to the CFD-G30.
1.2	2002.06	CD mechanism type changed into KSM-213RDP from KSM-213CDP (ENG-02026)